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Annotated Bibliography of the Literature on Resource Sharing Computer Networks

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¹ Headquarters and Laboratories at Gaithersburg, Maryland, unless otherwise noted; mailing address Washington, D.C. 20234.

² Located at Boulder, Colorado 80302.

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- 4

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ACKNOWLEDGEMENTS

The authors acknowledge the extensive assistance provided by members of the ICST Computer Information Section. Beverly Borke and Jackie Jones were responsible for cataloging and inputting the bibliographic data and annotations onto magnetic tape. Computer processing of the computer networking data base was managed and executed by Addie Chattic with assistance from Peter Calomeris and directed by Max Christopher. Annotated Bibliography of the Literature on Resource Sharing Computer Networks*

> Helen M. Wood Shirley Ward Watkins Ira W. Cotton

ABSTRACT

This bibliography consists of over 1,000 references with critical annotations to the literature on computer networks. A classification scheme has been developed to make each citation more accessible by general topic. Five indexes to the bibliography are included: author index, corporate author index, network index, title word index, and report number index.

Key Words: Bibliography; computer network; data communications; resource sharing.

INTRODUCTION

A fully annotated bibliography on resource sharing computer networks has been prepared by the Computer Networking Section of the NBS Institute for Computer Sciences and Technology. This work is an extension of the annotated bibliography published in 1973 by Blanc, Cotton, Pyke and Watkins.** The current bibliography contains nearly two times the number of references contained in the previous work. Its purpose is to serve as a working tool for those involved in computer networking research as well as those who are concerned with the design, evaluation, selection, and use of computer networks. The volume of requests for the first bibliography indicated the widespread and

*This work has been supported by the National Science Foundation under Grant DCR72-01206 A05.

**R.P. Blanc, I.W. Cotton, T.N. Pyke, Jr., and S.W. Watkins, <u>Annotated</u> <u>Bibliography</u> of the <u>Literature</u> on <u>Resource</u> <u>Sharing</u> <u>Computer</u> <u>Networks</u>, NBS Special Publication 384, September 1973.

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continuing need for such a work and, consequently, the indexes have been brought up to date through December 1975 and produced once again in this readily available form as an NBS Special Publication. Several documents published in 1976 are also included.

The bibliography covers computer networks consisting of independent computer systems which communicate with one another and share resources such as hardware, programs, or data and excludes, for example, articles on time-sharing and multi-processing which deal specifically and exclusively with those topics. Ancillary topics are covered if they are sufficiently relevant. Errors of exclusion have been considered by the authors to be more serious than errors of inclusion. All articles which are clearly topical are included without regard to quality; one purpose of the annotations is to identify particularly worthwhile articles.

A systematic search of relevant literature was undertaken in order to identify candidate documents for inclusion in the bibliography. All available related bibliographies, including those in Computing Reviews and those available through the ARPA Network Information Center were utilized in this search. Complete coverage of the personal collections of individuals at NBS who have been working in the computer networking area for some time is also included. As papers and reports were made a part of this collection, citations made within them were checked for potential additional documents for the collection. In addition, recent literature that may contain appropriate papers has been searched. No documents of a classified nature are included; however, some reports that may be rather difficult to obtain but are formal reports of recognized organizations are included.

No document is referenced in this bibliography unless it has actually been obtained for the collection at NBS. These documents are not, however, available from NBS except for internal use.

As each document was cataloged, the bibliographic data and annotations were placed in machine-readable form through the use of a key-to-tape terminal. The magnetic tapes resulting from this operation were then converted to industry compatible tapes and used as input to a special set of COBOL programs on the NBS Univac 1108 service computer. These programs were developed by the Computer Information Section of the NBS Institute for Computer Sciences and Technology.

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The method of developing the bibliography has been to obtain potential documents through all possible sources and to evaluate their appropriateness for the collection according to the criteria stated above. All documents are annotated in a reasonably critical manner relative to this general subject area and placing particular attention on the currency of the information contained. All documents are categorized according to a classification scheme that has been developed for this specialized collection. This scheme permits each document to be placed in one primary category and one or more secondary categories as appropriate.

HOW TO USE THE INDEXES

The computer-produced output for this collection includes an annotated master bibliographic listing, an author index, a corporate author index, a network index, a title word index and a report number index.

Bibliographic Index

The Bibliography Section contains complete bibliographic citations ordered by subject category and, within category, by author. If there was no personal author for the paper, then the citation is ordered by title, within subject category. The annotation for each document is included only in the primary category and is cross-referenced when an entry appears in secondary categories.

Author Index

All authors of each article are listed in the Author Index with their names followed by as much of the title as will fit on one line. No indication is given here as to whether an individual is the sole author or one of several coauthors. Reference should be made to the Bibliographic Index for this information.

Authors will be found under the prefix when their last name is preceded by prefixes such as: DE, DI, LA, VAN, VER and VON. Authors may be listed with their given names in full or with one or more of their given names shortened to initials. This, plus the fact that authors whose names are followed by suffixes such as JR, SR, II and III sometimes publish with the suffix dropped, means that occasionally references by the same author may become slightly separated. Each entry identifies the document's subject category number and first author for cross-referencing.

Corporate Author Index

For each article listed in this index, the organization at which each author was employed at the time of publication of the article is given, followed by as much of the title as will fit on one line. As with the Author Index, organizations employing all authors of each article are listed.

Each entry identifies the document's subject category number and first author for cross-referencing.

Title Word Index

The Title Word Index is a keyword out of context (KWOC) index. Each title can be found under all of the significant words that it contains.

Over 70 words which are of limited use as search tools such as ALMOST, AND, BIG, FOR, HAVING, NO, OF, THE and WITHIN have been excluded from the keyword index in order to reduce the length of this list. In addition words such as COMPUTER, COMPUTERS, NETWORK, and NETWORKING have been excluded as keywords since they appear so often in titles in the specific area covered by this report that they lose their value as keywords.

Each title cross-references the main citation entry in the Bibliography Section by category number and the first ten characters from the primary author's last name.

Network Index

The network Index contains entries concerned with specific networks, such as ARPA or WWMCCS. As with the Title Word Index, each entry cross-references the bibliography by category number and author's last name.

Report Number Index

Each document's associated report numbers, when known, are listed in the Report Number Index, followed by as much of the title as will fit on one line. Report numbers include grant numbers, contract number, Defense Documentation Center "AD" numbers, Library of Congress "LC" numbers, and so forth. Each entry is cross-referenced to the main citation by category number and author's last name.

CLASSIFICATION SCHEME

The classification scheme developed for the previously published bibliography of resource-sharing computer networks was designed to satisfy both a reflection of the field as it seems to be structured as well as pragmatic considerations of covering the "collection" evenly. This was accomplished by a hierarchical classification scheme, which first permitted the field to be structured, and then permitted discrimination between groups of articles to as great a detail as seemed warranted. Since articles may be multiply classified, there was minimal concern that all classes be mutually exclusive.

An article is assigned to as many classes as seem useful for researchers interested in that particular class. A distinction is made between primary classification and secondary classification only for reasons of efficiency in the production of the bibliography; a full reference appears in all cases, but the annotation appears only at the primary reference. Secondary references point to the primary reference so that the annotation may be located.

This taxonomy is not considered to be definitive, but has been adapted to the content of the bibliography and the needs of researchers. New categories are added as required and/or existing categories further subdivided.

The following notes describe the authors' intent for each entry in the classification scheme:

- INTRODUCTORY all articles of a general, introductory survey or tutorial nature. Note, however, that general descriptions of specific networks are assigned to section 3. All articles in this section are assigned to one of the following classes:
 - **1.0** General self-explanatory
 - 1.1 Objectives articles dealing with goals, purposes, objectives of resource-sharing computer networks. Why are such networks being built; what are the expected benefits?
 - 1.2 Survey comparison articles describing two or more networks
 - 1.3 Tutorial tutorial articles dealing with computer

networks and tutorial articles dealing with ancilliary subjects (e.g., data communications)

- 1.4 Bibliographies
- 1.5 Social Issues such issues as are raised by computer networks
- 1.6 Forecasts prognostications regarding the growth or future development of computer networks
- 1.9 Other anything else which properly falls in the introductory section
- 2. THEORY all analyses, simulations, algorithms, theoretical formulations and results of any sort dealing with computer networks. The main distinction to be made is from the next section on architecture.

This section is broken down into the following classes:

- 2.0 General self-explanatory
- 2.1 Analysis divided further as follows:
 - 2.1.0 General
 - 2.1.1 Simulation descriptions of actual simulations c networking systems
 - 2.1.2 Analysis all analytic work which is not based on simulations
 - 2.1.3 Routing all articles dealing with routing algorithms, computations or simulation. (This class was pragmatically established).
 - 2.1.4 Modelling descriptions of models of networking systems, especially those which have not led to analytic results and which have not been implemented by simulations. (Naturally, there will be some overlap with the sections on simulation and analysis)

2.1.9 Other

2.2 Measurement - any results of observing the operation of existing networks, or techniques of measurement which could be applied

- 2.3 User Considerations human factors, response time considerations, system friendliness discussions
- 2.9 Other anything else
- 3. ARCHITECTURE all articles dealing with the actual design of networks, components, implementation issues
 - 3.0 General
 - 3.1 Specific networks descriptions of specific networks, further categorized as follows:
 - 3.1.0 General descriptions distinguished from the next class by judgment only
 - 3.1.1 Technical descriptions including interim reports
 - 3.1.2 Evaluation performance analyses, reported results of operating, introspective articles
 - 3.2 Telecommunications all articles dealing with data communications
 - 3.2.0 General
 - 3.2.1 Transmission Facilities lines, circuits, common carrier and specialized facilities (but not modems, multiplexers, etc.)
 - 3.2.2 System design of data communications systems
 - 3.2.3 Hardware components components of a data communication system: modems, multiplexers, etc.
 - 3.2.9 Other anything else dealing with telecommunications (telecommunications software, however, is assigned to 3.4)
 - 3.3 Hardware components for computer networks, excluding specific communications hardware covered in the previous class
 - 3.3.0 General
 - 3.3.1 Interfaces between processors or between a processor and the data communications

system

- 3.3.2 Processors including front-ends and switching computers
- 3.3.9 Other
- 3.4 Software of any type. Application programs will be classed under applications.
 - 3.4.0 General
 - 3.4.1 Communications communications control (but line disciplines are reserved for 3.5)
 - 3.4.2 Operating Systems including network control programs
 - 3.4.3 Data Management
 - 3.4.4 User-oriented
 - 3.4.5 Software Testing
 - 3.4.9 Other
- 3.5 Protocols including line discipline and communications control procedures
 - 3.5.0 General
 - 3.5.1 Low Level
 - 3.5.2 High Level
 - 3.5.9 Other
- 3.9 Other

.

- APPLICATIONS all articles dealing with uses of computer networks
 - 4.0 General
 - 4.1 Functional packages, services or capabilities likely to have widespread use (e.g., text editing or teleconferencing systems)
 - 4.1.0 General

- 4.1.1 Teleconferencing Systems
- 4.1.2 File Management (including file transfer and data sharing)
- 4.1.9 Other
- 4.2 Discipline-oriented applications common to a specific field (e.g., an engineering package, a chemical analysis service)
 - 4.2.0 General
 - 4.2.1 Health and Medical Sciences
 - 4.2.2 Library Science
 - 4.2.3 Education
 - 4.2.9 Other
- 4.3 Computer Utility this category is usually claimed by the article itself
- 4.9 Other
- 5. MANAGEMENT all articles dealing in any way with the operation or business of computer networks
 - 5.0 General
 - 5.1 Operations day to day management
 - 5.2 Market Analysis who are the users?
 - 5.3 Financial capitalization, billing, finance
 - 5.4 Regulatory public policy, tariffs, etc.
 - 5.5 Standards
 - 5.6 Security systems, requirements
 - 5.7 User Services
 - 5.8 Procurement
 - 5.9 Other

ANNOTATED BIBLIOGRAPHY Complete through 1975

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1. INTRODUCTORY

1.0 GENERAL

PARAN. PAUL. ON DISTRIBUTED COMMUNICATIONS: 1. INTRODUCTION TO DISTRIBUTED COMMUNICATIONS NETWORKS, RAND CORP., SANTA MONICA, CA, AUG 64, RC RM-3420-PR, AF 49(638)-700, (A0-444 830), 37P, 3 REFS

THIS IS THE INTRODUCTORY REPORT TO THE SERIES OF DOCUMENTS THAT FOR THE FIRST TIME PRESENT THE MESSAGE-SWITCHED DISTRIBUTED NETWORK AS CLEARLY SUPERIOR TO CENTRALIZED AND HIERARCHICAL NETWORKS FOR SURVIVABILITY. A STANDARD MESSAGE BLOCK IS PROPOSED TO SIMPLIFY NETWORK DESIGN AND ARGUMENTS ARE MADE FOR SYNAMIC ROUTING AND LOW COST COMMUNICATION LINKS THAT IN A DISTRIBUTED CONFIGURATION CAN PROVIDE RELIABLE COMMUNICATIONS, (ALSO UNDER 3.0)

- BARAN, PAUL, ON OISTRIBUTEO COMMUNICATIONS: XI. SUMMARY OVERVIEW, RAND CORP., SANTA MONICA, CA, AUG 64, RC RH-3767-PR, AF 49(638)-700, (AD-444 B37), 23P (ANNDTATION UNDER 3.0)
- BAUER, WALTER F., COMPUTER/COMMUNICATIONS SYSTEMS: PATTERNS AND PROSPECTS, (INFOPMATICS INC., SHERMAN OAKS, CA), GRUENBERGER, F., COMPUTERS AND COMMUNICATIONS--TOWARD A COMPUTER UTILITY, PRENTICE-HALL INC., ENGLEWOOD CLIFFS, NJ, 1968, (TK SI01-C67, LC 68-16776), P 13-37, 11 REFS

AN OVERVIEW OF THE IMPACT OF THE MARRIAGE OF COMPUTERS AND COMMUNICATIONS IS PROVIDED. THE HISTORY OF COMPUTER COMMUNICATIONS AND THE ECONOMIC AND SOCIAL IMPLICATIONS OF THE MARRIAGE ARE TOUCHED UPDN. SOME PARTICULARLY INTERESTING PREDICTIONS CONCERNING THE ROLE OF MESSAGE SWITCHING ARE MADE. (ALSO UNDER 4.3)

BENDICK. MARC. FINAL REPORT OF THE COMMITTEE ON NETTING COMPUTER SYSTEMS, SYSTEM DEVELOPMENT CORP., SANTA MONICA, CA. ELECTRONIC INDUSTRIES ASSOCIATION, WASHINGTON, DC. DEFENSE COMMUNICATIONS COUNCIL. JUL 70. 52P

A SELECTION OF PROBLEMS AND A VARIETY OF GENERALIZATIONS ARE PROVIDED THAT RELATE TO THE NETWORKING OF STAND-ALONE COMPUTER SYSTEMS FOR MILITARY APPLICATIONS.

BORKO, H,, NATIONAL AND INTERNATIONAL INFORMATION NETWORKS IN SCIENCE AND TECHNOLOGY, (CALIFORNIA, UNIV. OF, LOS ANGELES)

AFIPS PROCEEDINGS, 1968 FALL JOINT COMPUTER CONFERENCE, VOLUME 33, PART 2, (SAN FRANCISCO, CA, OECEMBER 9-11, 1968), THOMPSON BOOK CO., WASHINGTON, OC, 1968, AFIPS CONFERENCE PROCEEDINGS, (LC 55-44701), P 1469-1472, 3 REFS

THE NEED FOR AND PROBLEMS OF A NATIONAL AND INTERNATIONAL SCIENCE NETWORK ARE INTRODUCED. THE DIFFICULTIES ASSOCIATED THE NEED FOR AND PROBLEMS OF A NATIONAL AND INTERNATIONAL SCIENCE NETWORK ARE INTRODUCED. THE DIFFICULTIES ASSOCIATED WITH THE MASSIVENESS OF TECHNOLOGICAL INFORMATION AS WELL AS THE MAGNITUDE OF THE GOVENNENTAL AND PRIVATE EFFORTS AIMED AT SOLVING THESE OIFFICULTIES ARE PRESENTED. IT IS STATED THAT ALTHOUGH THE EFFORTS ARE COORDINATED. THEY ARE NOT TRULY INTEGRATED, AND THEREFORE THE INDIVIDUAL ENTITIES SHOULD SECOME INTERCONNECTED AND CODERATIVE IN SHARING PROBLEMS SOLVING RESOURCES. THE TECHNICAL PROBLEMS OF A NATIONAL AND INTERNATIONAL NETWORK ARE CATEGORIZED AS NOT INSURMOUNTABLE, BUT MANAGEMENT PROBLEMS ARE CONSIDERED MORE OIFFICULTAND SOME ARE EXPLICITLY STATED. THE CONCLUDING STATEMENTS CONCERNING THE IMPLICATIONS OF COMPUTER NETWORKS MAY BE A BIT OVERLY OPTIMISTIC. WITH THE MA

CASTLE, JAMES C., SYSTEM CONTROL IN MULTIPLE ACCESS COMPUTER NETWORKS, (GENERAL ELECTRIC CO,, BETHESDA, MO, OEPT, OF INTERNATION NETWORKS). Internation Networks). Internation Networks).

A TERMINOLOGY FOR COMPUTER NETWORKS IS PRESENTED AND NETWORK STRUCTURES AND ALTERNATIVE NETWORK CONTROL SCHEMES ARE BRIEFLY DISCUSSED. THE GENERAL ELECTRIC CENTRALIZED NETWORK SERVES AS AN EXAMPLE FOR THE DISCUSSION. (ALSO UNDER 3.0)

MERRILL M., COMMERCIAL INFORMATION PROCESSING NETWORKS--PROSPECTS AND PROBLEMS IN PERSPECTIVE. FL000. HUXLEY, JUDITH, THE OUTLOOK FOR TECHNOLOGICAL CHANGE AND EMPLOYMENT, APPENDIX VOLUME I, TECHNOLOGY AND THE AMERICAN Economy, and economic progress, the report of the commission, Feb 66, (hc 106,5,as682), p 1-233--1-252

THIS ANALYSIS REVIEWS COMMERCIAL NETWORK ACTIVITIES AND RELATED IMPLICATIONS. SPECIAL PROJECTS IN THE AMERICAL THIS ANALYSIS REVIEWS COMMERCIAL NETWORK ACTIVITIES AND RELATED IMPLICATIONS. SPECIAL PROJECTS IN THE AREAS OF LIGRARIES, EQUCATION, BIOMEDICINE, ENGINEERING, LAW, PRODUCT DISTRIBUTION, FINANCE, TRANSPORTATION, AND RELATED IMPLICATIONS AND IMPACTS ARE DISCUSSED. THEN A NUMBER OF PROBLEMS ASCIATED WITH NETWORKING ARE PUT FORTH, PARTICULARLY THOSE DEALING WITH LEGAL ISSUES, THE PAPER CONCLUDES WITH A LIST OF RECOMMENDATIONS FOR FEDERAL GOVERNMENT ACTION.

ARTUNG, ALBERT F., COMPUTER NETWORKS AND COMMUNICATIONS, (SYSTEM DEVELOPMENT CORP., SANTA MONICA, CA, DEPT, OF COMMUNICATIONS PROJECTS), COMPUTER, VOL 7, ISSUE 2, FEB 74, P 11 HARTUNG

IN THIS VERY BRIEF, INTRODUCTORY ARTICLE HARTUNG ASSERTS THAT NETWORKS SHOULD BE ACCESSIBLE BY PERSONS AT DIFFERENT LEVELS OF USER SOPHISTICATION AND SHOULD BE ADAPTIVE TO CHANGING REQUIREMENTS.

KURTZ, THOMAS, REGIONAL NETWORKS.(PRESENTED AT, NETWORKS IN HIGHER EDUCATION: PROCEEDINGS OF THE EDUCOM COUNCIL MEETING Seminap, Atlanta, GA, October Is.1970), (Oartmouth college, Hanover, NH), Beravioral Science, vol Ig, Issue S, Sep 71, p 494-497

AFTER REVIEWING OIMENSIONS FOR CLASSIFICATION OF NETWORKS, E.G., COMMUNICATIONS, TYPE OF SERVICE EXCHANGEO, AND DRGANIZATIONAL STRUCTURE, THE AUTHOR DISCUSSES THE KINO OF NETWORK REPRESENTED BY A RECENT BURST OF ACTIVITY THAT HAS GROWN OUT OF THE DIERCE REPROF. 'COMPUTERS IN HIGHER EDUCATION.' TWO PROJECTS AT OARTMOUTH AIMEO AT ADORESSING THE CURRICULUM DEVELOPMENT PROBLEM ARE MENTIONED: PROJECT COEXIST, AND PROJECT COMPUTE,

- NEUMANN, A. J., A GUIGE TO NETWORKING TERMINOLOGY, NATIONAL BUREAU OF STANOAROS, WASHINGTON, OC, SYSTEMS AND SOFTWARE Oly., Mar 74, Nes in-803, NSF AG-350, 29P (ANNOTATION UNDER 1.3)
- O'SULLIVAN, THOMAS C., TERMINAL NETWORKS FOR TIME-SHARING, (RAYTHEON CO., SUCBURY, MA, GATA SYSTEMS SECTION). OATAMATION, VOL 13, ISSUE 7, JUL 67, P 34-43, I REFS

THIS IS ANOTHER ARTICLE ON THE RAYTHEON TERMINAL NETWORK. SEE O'SULLIVAN'S ARTICLE 'EXPLOITING THE TIME-SHARING ENVIRONMENT' IN CATEGORY 3-1-2-

PROBST, LESTER A., COMMUNICATIONS DATA PROCESSING SYSTEMS: OESIGN CONSIDERATIONS. (FAIM, NEW YORK), COMPUTERS AND AUTOMATION. VOL 17, ISSUE S, MAY 68, P 18-21

A CHECKLIST OF CONSIDERATIONS IS PROVIDED RELATIVE TO THE SUCCESSFUL IMPLEMENTATION AND EVENTUAL OPERATION OF A COMMUNICATION DATA PROCESSING SYSTEM', A COMMUNICATION DATA PROCESSING SYSTEM IS DEFINED AS AN ON-LINE SYSTEM CONSISTING OF: INQUINT RESPONSE, DATA COLLECTION, DATA DISSEMINATION, AND MESSAGE SWITCHING.

BERTS, LAWRENCE G., O. R. PADEN, NETWORK G COMPUTERS. SESSION II, OEFINITION, MODELING AND EVALUATION--SESSION Summary, (advanced research projects agency, washington, oc, national security agency, fort meade, moj, Proceedings of invitational workshop on computers, oct 06, p 57-65 ROBERTS. LAWRENCE G ...

A DISCUSSION SESSION AIMED AT DEFINING NETWORKS OF COMPUTERS (NOC) IS SUMMARIZED, IDENTIFYING THE MAIN PROBLEMS, AND REVIEWING THE CURRENT APPROACHES TO SOLUTIONS. THE SUMMARY REPORTS AGREEMENT THAT A RESOURCE SHARING NETWORK OF COMPUTERS SHOULD HAVE THE FOLLOWING FEATURES: (1) EACH COMPUTER SHOULD BE CAPABLE OF EXTENDING LOCALLY AVAILABLE SERVICE TO THE ENTIRE NETWORK, (2) USER-DESIGNED PROCEDURES SHOULD DE ABLE TO REQUEST ANY SERVICES AVAILABLE IN THE NETWORK, AND (3) EACH COMPUTER MUST DE CAPABLE OF ACCEPTING AND EXECUTING AN ARGITRARY PROCEDURE. THE DISCUSSION THEN CONSIDERS SOMU DESIGN QUESTIONS, MODELING ALTERNATIVES, AND PERFORMANCE MEASURES. THE FINALE IS A LIST OF INTERESTING UNANSWERED QUESTIONS CONCERNING NETWORKS.

(ALSO UNDER 2.0)

1.1 OBJECTIVES

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I.1 DBJECTIVES

GREENBERGER, MARTIN, JULIUS ARONOFSKY, JAMES L. MCKENNEY, WILLIAM F. MASSY, NETWORKS FOR RESEARCH AND EDUCATION: SHARING COMPUTER AND INFORMATION RESOURCES NATIONWIDE, MIT PRESS, CAMBRIDGE, MA, 1973, P 99-104

THE USE OF COMPUTERS IN THE NATURAL SCIENCES COVERS A BROAD SPECTRUM OF USERS. PARTICIPANTS OF THE WORKSHOP EMPHASIZE THAT THE GOAL OF A NETWORK SHOULD BE TO ACCOMMODATE INDIVIOUALS WHO REQUIRE LARGE BLOCKS OF COMPUTER TIME AS WELL AS SMALL USERS WHICH IN THE AGGREGATE REDUIRE EXTENSIVE COMPUTER POWER. IT IS NOTED THAT THERE IS A NEED FOR A CATALOG OF THE COMPUTING RESOURCES OF NATIONAL SCIENCE LABORATORIES AND UNDER WHAT CIRCUMSTANCES THEY ARE AVAILABLE TO HIGHER EQUCATION. (ALSO UNDER 4.2.9)

AUFENKAMP. O. DON, NSF ACTIVITIES IN NETWORKING FOR SCIENCE, (NATIONAL SCIENCE FOUNDATION, WASHINGTON, OC); Greenberger, martin, julius aronofsky, james l. McKenney, william F. Massy, networks for research and education: sharing computer and information resources nationwide, mit press, cambridge, Ma. 1973, P. 30-43, 2. Refs

THE AUTHOR REVIEWS SOME NSF SUPPORTED ACTIVITIES ASSOCIATED WITH THE CONCEPT OF A NATIONAL SCIENCE COMPUTER NETWORK. THESE INCLUDE PROGRAMS SPONSORING RESEARCH, DEVELOPMENT AND SPECIAL STUDIES IN THE AREAS OF RESOURCE SHARING, USER CHARACTERISTICS. USER NEEDS, AND NETWORK TECHNOLOGY. (ALSO UNDER 1.0, 4.2.0)

AUFENKAMP, O. O., NATIONAL SCIENCE (COMPUTER) NETWORK, (NATIONAL SCIENCE FOUNDATION, WASHINGTON, OC, OFFICE OF CCMPUTING ACTIVITIES), NETWORKS FOR HIGHER EOUCATION. PROCEEDINGS OF THE EOUCOM SPRING CONFERENCE, (WASHINGTON, OC, APRIL 13, 1972), INTERUNIVERSITY COMMUNICATIONS COUNCIL INC. (EOUCOM), PRINCETON, NJ, 1972, P 29-35

THIS IS AN INTRODUCTION TO THE CONCEPT OF THE NATIONAL SCIENCE COMPUTER NETWORK LINKING USERS AT ACADEMIC AND OTHER INSTITUTIONS TO SPECIALIZED RESOURCES FOR COMPUTING AND SCIENCE INFORMATION SERVICES. THE EMPHASIS IN THIS PRESENTATION IS ON THE STRUCTURED SHARING OF COMPUTER RESOURCES AND THE RELATED BENEFITS RATHER THAN ACCENTUATING THE COMPUTER NETWORK TECHNOLOGY. (ALSO UNDER 4.22-D)

AUFENKAMP, 0. 0., NSF NETWORK INITIATIVE. (NATIONAL SCIENCE FOUNDATION, WASHINGTON, OC, OFFICE OF COMPUTING ACTIVITIES) NETWORKS AND DISCIPLINES. PROCEEDINGS OF THE EQUCOM FALL CONFERENCE, (ANN ARBOR, WI, OCTOBER II-13, 1973), 1973, P 88-90, 3 REFS

A SHORT, GENERAL DISCUSSION IS PRESENTED ON THE WORK OF THE NATIONAL SCIENCE FOUNDATION TOWARDS A NATIONAL SCIENCE COMPUTER NETWORK. THE SCOPE AND OBJECTIVES OF THE NETWORK INITIATIVE AND CURRENT RESEARCH PROJECTS IN THIS AREA ARE INCLUDED. (ALSO WORER 4-2-0)

BARBER, O. L. A., PROGRESS WITH THE EUROPEAN INFORMATICS NETWORK, (NATIONAL PHYSICAL LAB., TEODINGTON, (ENGLAND), EUROPEAN INFORMATICS NETWORK), THE SECOND INTERNATIONAL CONFERENCE ON COMPUTER COMMUNICATION. COMPUTER COMMUNICATION TODAY AND UP TO 1985, (STOCKHOLM, (Sweden), August 12-14, 1974), INTERNATIONAL COUNCIL OF ICCC, 1974, P 215-220, 9 REFS (ANNOTATION UNDER 3.1.0)

- BARBER, O. L. A., THE EUROPEAN COMPUTER NETWORK PROJECT, (NATIONAL PHYSICAL LAB., TEODINGTON, (ENGLANO)), WINKLER, STANLEY, COMPUTER COMMUNICATIONS: IMPACTS AND IMPLEMENTATION. THE FIRST INTERNATIONAL COMFERENCE ON COMPUTER COMMUNICATION, (WASHINGTON, OC, OCTOBER 24-26, 1972), INTERNATIONAL CONFERENCES ON COMPUTER COMMUNICATION, 1972, ICCC 72-CHO-690-BC, NSF GJ-33239, P 192-200, 16 REFS (ANNOTATION UNDER 3.1.0)
- BELL, C. G., A. N. HABERMANN, J. MCCREDIE, RONALO M. RUTLEOGE, W. WULF, COMPUTER NETWORKS, (CARNEGIE-MELLON UNIV., PITTSBURGH, PA, OEPT. OF COMPUTER SCIENCE), COMPUTER, VOL 3. ISSUE S, SEP-OCT 70, P I3-23 (ANNOTATION UNDER 3.1.0)
- BENOIT, JOHN W., S. B. NAHLE, P. H. MESSING, O, C. WOOD, EVALUATION OF THE NETWORK FEATURES REQUIRED TO ATTAIN THE APPROVED NMCS OBJECTIVES, MITRE CORP., WASHINGTON, OC, 25 JUN 71, MC WP-9742, SSP

MITRE IS A CONSULTANT TO THE DEFENSE COMMUNICATIONS AGENCY ASSISTING IN PREPARING FOR THE DEVELOPMENT OF A COMPUTER NETWORK IN THE NATIONAL MILITARY COMMAND SYSTEM (NMCS). THIS PAPER DISCUSSES THE DEJECTIVES TO DE MET BY AN NMCS NETWORK AND EVALUATES THE CAPABILITIES WHICH CHARACTERIZE NETWORKS TO IDENTIFY THOSE FEATURES WHICH WILL BE REDUIRED TO ATTAIN THE NMCS DEJECTIVES.

BENVENUTO, A. A., J. R. GODOROE, R. P. MORTON, SYSTEM LOAD SHARING STUDY, MITRE CORP., WASHINGTON, OC, 25 MAR 69, MTR SD62, AF F19628-68-C-0365, 95P (ANNOTATION UNDER 1.2)

BROWN, GEORGE W., AN INTERUNIVERSITY INFORMATION NETWORK, II. EVALUATION, (CALIFORNIA, UNIV. OF, IRVINE), KENT, ALLEN, ORRIN E. TAULBEE, ELECTRONIC INFORMATION HANDLING, (PITTSBURGH, PA. OCTOBER 7-9, 1964), SPARTAN BOOKS INC., WASHINGTON, OC, 1965, KNOWLEOGE AVAILABILITY SYSTEMS SERIES, (LC 65-17306), P 269-27B

IN A RATHER GENERAL WAY SOME OF THE IMPORTANT PROBLEMS INVOLVED IN THE EVALUATION OF AN INTER-UNIVERSITY NETWORK ARE PRESENTED. (ALSO UNDER 3.1.2)

BROWN, GEORGE W., JAMES G. MILLER, THOMAS A. KEENAN, EQUNET REPORT OF THE SUMMER STUDY ON INFORMATION NETWORKS, INTERUNIVERSITY COMMUNICATIONS COUNCIL INC. (EQUCOM), PRINCETON, NJ, WILEY (JOHN) AND SONS INC., NEW YORK, 1967, (LC 67-21328), 440P

THIS BOOK IS A REPORT OF A STUDY ON INFORMATION NETWORKS CONDUCTED BY EDUCOM WHICH WAS UNDERTAKEN TO CONSIDER WHETHER AN ADVANCED EDUCATIONAL NETWORK WOULD MAKE AMERICAN HIGHER EDUCATION MORE EFFFICIENT AND ECONOMICAL AND IMPROVE THE QUALITY OF INSTRUCTION AND RESEARCH. TWO NETWORK OESIGNS ARE PRESENTED AND ANALVZED.

COLE, G. O., COMPUTER NETWORKS, (SYSTEM OEVELOPMENT CORP., SANTA MONICA, CA), 1972 WESCON TECHNICAL PAPERS. SESSION 7: COMPUTER NETWORKS, (PRESENTED AT, WESTERN ELECTRONIC SMOW AND CONVENTION, SEPTEMBER 19-22. 1972), 1972, P.71-7-2. 2 REFS

THIS ARTICLE IS PRIMARILY AN INTRODUCTION TO THE REMAINING ARTICLES PRESENTED AT THE COMPUTER NETWORK'S SESSION OF THE WESCON CONFERENCE, ALTHOUGH IT ODES BRIEFLY DISCUSS SOME OF THE BENEFITS OF COMPUTER NETWORKING.

OAVIS, RUTH M., OR., COMPUTING NETWORKS: A POWERFUL NATIONAL FORCE, (PRESENTED AT, COMPCON 73 COMMITTEE, FEBRUARY 28, 1973), (NATIONAL BUREAU OF STANDAROS, WASHINGTON, OC, INST. FOR COMPUTER SCIENCES AND TECHNOLOGY). CCMPUTER, VOL 6, ISSUE 4, APR 73, P 14-18

IN THIS PAPER, A COPY OF HER COMPCON 73 KEYNOTE SPEECH, OR, OAVIS ASSERTS THAT "COMPUTER NETWORKS COULO WELL BE THE STRONGEST FORCE AT OUR COMMAND TODAY." SHE SUPPORTS THIS ASSERTION WITH EXAMPLES OF THE ALREADY PRESENT OEPENDENCE UPON THE COUPLING OF MINI- AND MAXICOMPUTERS IN OUR NATION, AND URGES THE AODPTION OF A PLAN THAT SHE CONSIDERS MINIMAL IN MEETING NETWORK USERS" AND TECHNOLOGISTS' OBLIGATION TO SOCIETY AND TO THE BENEFICIAL APPLICATION OF COMPUTER TECHNOLOGY.

- OAVIS, RUTH M., PRACTICALITIES OF NETWORK USE, (NATIONAL BUREAU OF STANDARDS, WASHINGTON, OC, INST. FOR COMPUTER SCIENCES AND TECHNOLOGY), NETWORKS FOR HIGHER EDUCATION. PROCEEDINGS OF THE EDUCOM SPRING CONFERENCE, (WASHINGTON, OC, APRIL 13, 1972), INTERUNIVERSITY COMMUNICATIONS COUNCIL INC. (EDUCOM), PRINCETON, NJ, 1972, P I3-28
- DEGRASSE, RICHARO V., REMOTE COMPUTING IN HIGHER EQUCATION: PROSPECTS FOR THE FUTURE, VERMONT, UNIV. OF, BURLINGTON, ACADEMIC COMPUTING CENTER, DEC 71, NSF GJ-947, 103P, S3 REFS

OIRECTIONS FOR EQUCATIONAL COMPUTING NETWORKS ARE IDENTIFIED, SOME BASED ON CITED SURVEYS AND OTHER PAPERS, SOME WITHOUT APPARENT JUSTIFICATION. ALSO CONTAINED ARE SUMMARIES OF TECHNOLOGICAL AND REGULATORY TRENDS IN COMPUTERS AND COMMUNICATIONS, GREAT CONCERN IS NOTED FOR THE ISO EDUCATIONAL INSTITUTIONS WITHOUT ACCESS TO COMPUTING FACILITIES, AND IT IS TO SERVE THEM THAT A PRIMARY JUSTIFICATION FOR METWORKING IS MADE, THE REPORT VIEWS SUCH NETWORKS AS TEMPORARY, HOWEVER, UNIL USER SITES HAVE OBTAINED THEIR OWN COMPUTER FACILITIES, AT WHICH POINT THE NETWORK MAY NOT BE NEEDED. 1.I OBJECTIVES

ECONOMY OF SCALE IS MENTIONED BUT NOT EXPLORED OTHER THAN TO INTRODUCE THE CONCEPT OF REGIONAL NETWORKS AS MORE LIKELY TO SUCCEED THAN LARGER, PERHAPS NATIONAL NETS. ALTHOUGH THE CONCLUSIONS STATED AT THE BEGINNING OF THE REPORT CALL FOR A NATIONAL EDUCATIONAL NETWORK, LITTLE SUPPORTING MATERIAL IS PRESENTED TOWARD THIS CONCLUSION. THE USE OF PP85 MANAGEMENT FOR A NETWORK, OR NETWORK COMMUNITY, IS PROPOSED. (ALSO UNDER 4.2.3)

- DIXON, WILFRID J., DATA AND COMPUTING FACILITIES, (CALIFORNIA, UNIV, OF, LOS ANGELES), GREENBERGER, MARTIN, JULIUS ARONOFSKY, JAMES L. MCKENNEY, WILLIAM F. MASSY, NETWORKS FOR RESEARCH AND EDUCATION: SHARING COMPUTER AND INFORMATION RESOURCES NATIONWIDE, MIT PRESS, CAMBRIDGE, MA, 1973, P IOS-114 (ANNOTATION UNDER 4-2-0)
- FIFE, DENNIS W., PRIMARY ISSUES IN USER NEEDS, (NATIONAL BUREAU OF STANDARDS, WASHINGTON, DC, INST. FOR COMPUTER AND TECHNOLOGY) SCIENCES SLIENCES AND TECHNOLOUF; Greenberger, Martin, Julius Aronofsky, James L. McKenney, William F. Massy, Networks for research and Education: Sharing Computer and Information resources nationwide, Mit press, Cambridge, MA, 1973, p.89–95, 3.Refs (Annotation under 2.3)

GOLOSTEIN, BERNARO, THE CASE FOR NETWORKS, (UNITED DATA CENTERS INC., NEW YORK), DATAMATION, VOL 16, ISSUE 3, MAR 70, P 62-64

NETWORKING OFFERS A SOLUTION TO INDEPENDENT OATA PROCESSING INSTALLATIONS WHICH SUFFER FROM THE PROBLEMS OF UNDERCAPITALIZATION AND LACK OF TECHNICAL TALENT. OTHER BENEFITS CLAIMED FOR NETWORKS ARE PROTECTION FOR Investments through market oominance and amortization of package development over a langer marketplace. The argument is somewhat general and specific examples are lacking. (Also under 5.3)

GREENBERGER, MARTIN, APPLICATIONS DEVELOPMENT AND USER SERVICES. REPORT OF WORKSHOP II. (JOHNS HOPKINS UNIV.), GREENBERGER, MARTIN, JULIUS ARONOFSKY, JAKES L, MCKENNEY, WILLIAM F. MASSY, NETWORKS FOR RESEARCH AND EDUCATION: SHARING CCMPUTER AND INFORMATICN RESOURCES NATIONNIDE. MIT PRESS, CAMBRIDGE, MA, 1973, P 373-384, I REFS

THE WORKSHOP INITIALLY GEALT WITH THE MEANING OF THE TERM *NETWORK* AND FOLLOWED WITH DISCUSSIONS OF THE FOLLOWING TOPICS: INCENTIVES; IDENTIFYING RESOURCES TO BE SHARED; STANDARDS AND QUALITY CONTROL; EFFECT OF DIFFERENT USER TYPES; GOVERNANCE AND ALLOCATION; AND OTHER POLICY ISSUES; (ALSO UNDER 1.3)

MAMILTON, WALTER C+DR+, LARGE-SCALE NUMERICAL ANALYSIS AS APPLIED TO THE BASIC SCIENCES. (BROOKHAVEN NATIONAL LAB.,

UPTON, NY). GREENBERGER, MARTIN, JULIUS ARONOFSKY, JAMES L. HCKENNEY, WILLIAM F. MASSY, NETWORKS FOR RESEARCH AND EDUCATION: SHARING COMPUTER AND INFORMATION RESOURCES NATIONWIDE, MIT PRESS, CAMBRIDGE, MA, 1973, P. 96-98

NETWORKING CAN PROVICE IMPORTANT RESOURCES FOR USERS WITH LARGE-SCALE COMPUTE-BOUND PROBLEMS. THE AUTHOR DISCUSSE THE POTENTIAL EXPANSION OF SCIENTIFIC HORIZONS TO NEW CLASSES OF PROBLEMS THROUGH THE POWER OF NEW TYPES OF COMPUTERS THAT NETWORKING WILL MAKE AVAILABLE TO MANY USERS. (ALSO UNDER 1.6) THE AUTHOR DISCUSSES

HERNOON, EOWIN S., E. PEREZ, NOREEN O. WELCH, CONCEPTS FOR A WWMCCS INTERCOMPUTER NETWORK, MC MTR-S122, AF F19628-71-C-0002, 122P, 4D REFS

THE PROBLEMS THAT ARISE WHEN IMPLEMENTING A DISTRIBUTED DATA BASE SYSTEM IN AN INTERCOMPUTER NETWORK ARE ADDRESSED IN THIS PAPER. THREE PROBLEM AREAS ARE DISCUSSED: THE DETERMINATION OF THE NODE AT WHICH DESIRED INFORMATION RESIDES THE USER AND SYSTEM CAPABILITIES NECESSARY TO ACCESS AND MAINTAIN THESE (DISTRIBUTED) DATA BASES, AND THE IMPACT OF SU SCHEMES ON THE HARDWARE AND SOFTWARE CONFIGURATIONS OF THE HOST SITES. THE DISCUSSION DEALS SPECIFICALLY WITH THE WWMCCS (WORLD WIDE MILITARY COMMAND AND CONTROL SYSTEM) NETWORK OF HONEYWELL 6000 COMPUTERS, BUT THE CONCEPTS ARE DEVELOPED IN A PEASONABLY GENERAL MANNER. SUCH

JASPER, GAVIG P., A GEFINITION OF NETWORKS, (CONTROL GATA CORP., MINNEAPOLIS, MI), COMPCON 73 - SEVENTH ANNUAL IEEE COMPUTER SOCIETY INTERNATIONAL COMFERENCE, DIGEST OF PAPERS, *COMPUTING NETWORKS FROM MINIS THROUGH MAXIS -- ARE THEY FOR REAL?*, (SAN FRANCISCO, CA, FEBRUARY 27-28, MARCH 1, 1973), INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS INC., NEW YORR, 1973, (LC 68-1628), P 67-69, 3 REFS

THE PURPOSE OF COMPUTER NETWORKS FROM THE VIEWPOINT OF SERVICES PROVIDED TO USERS IS EXPLAINED, BASED ON EAPERIENCES WITH CYBERNET, ALSOLAN ATTEMPT IS MADE TO CLASSIFY NETWORKS ACCORDING TO A SET OF BROAD FUNCTIONAL CLASSES, RATHER THAN THE TRADITIONAL USE OF TOPOLOGY.

KAPRIELIAN, ZOHRAB A., OR,, A FEASIBILITY STUDY OF COMPUTER SHARING: UCLA-CALTECH-USC, (SOUTHERN CALIFORNIA, UNIV, OF, ANGELES), EOUCOM BULLETIN, VOL 8. ISSUE I. SPRING 73. P 8-10

A COOPERATIVE EFFORT IN ASSESSING MUTUAL ADVANTAGES AVAILABLE THRU RESOURCE SHARING IS PRESENTED. THE PROGRAM, INVOLVING THREE DIVERSE UNIVERSITIES IN SOUTHERN CALIFORNIA, IS DESCRIBED. IN ADDITION TO THE GENERAL CONCLUSION OF FEASIBILITY, THE AUTHOR ENVERTES FACTORS OF POSSIBLE INTEREST TO OTHERS CONTEMPLATING SIMILAR RESOURCE SHARING PEOCRAM (ALSO UNDER 3.1.2)

KEMENY, JOHN G., OR., THE QUESTION OF NETWORKS: WHAT KIND AND WHY?, (DARTMOUTH COLLEGE, HANDVER, NH), EQUCOM BULLETIN, VOL 8, ISSUE 2, SUMMEP 73, P 18-21

THE AUTHOR ADDRESSES A VARIETY OF QUESTIONS RELATIVE TO TIME-SHARING SYSTEMS AND NETWORKS. HIS VIEWS REFLECT HIS INVOLVEMENT WITH THE CARTHOUTH TIME-SHARING SYSTEM (DTSS), AMONG QUESTIONS CONSIDERED ARE: WHAT IS A NETWORK? WHAT KINO OF SUPPLIERS SHOULD ONE CONSIDER IN A NETWORK? WHAT IS REMOTE? CAN OTSS BE CONSIDERED TO BE A NETWORK? HE BUILDS A CASE FOR A "FACILITATING NETWORK", A NETWORK WHAT IS NEMOTE? EXISTING TIME-SHARING SYSTEMS.

KIMBEL, DIETER, PLANNING OF DATA COMMUNICATIONS NETWORKS--ECONOMIC, TECHNOLOGICAL AND INSTITUTIONAL ISSUES, (ORGANISATION FOR ECONOMIC COOPERATION AND DEVELOPMENT, PARIS, (FRANCE)), winkler, Stanley, computer communications: impacts and implementation. The first international conference on computer COMMUNICATION, (WASHINGTON, OC, OCTOBER 24-26, 1972), INTERNATIONAL CONFERENCES ON COMPUTER COMMUNICATION, 1972, ICCC 72-CH0-690-BC, NSF GJ-33239, P 251-259, 19 REFS (ANNOTATICH UNDER S+4)

LENNON, WILLIAM J., A USER ORIENTED MINI-COMPUTER NETWORK. (NORTHWESTERN UNIV., EVANSTON, IL, DEPT. OF COMPUTER

SCIENCES) A GARM ONLELE ONLELEG ANTI-COMPUTER ACTOMAC, (MONTHAESTERN ONLY, EVANSION, L, GET, GE COMPUTER COMPCON FALL '75, ELEVENTH IEEE COMPUTER SOCIETY CONFERENCE, HOW TO MAKE COMPUTERS EASIER TO USE, OIGEST OF PAPERS, (WASHINGTON, GC, SEPTEMBER 9-11, 1975), INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YORK, 1975, IEEE 75CH098B-CC, P 133-136, 4 REFS (ANNOTATION UNDER 3.1.0)

ICKLIDER, J. C. R., POTENTIAL OF NETWORKING FOR RESEARCH AND EQUCATION, (MASSACHUSETTS INST. OF TECH., CAMBRIDGE), GREENBERGER, MARTIN, JULUS ARONOFSKY, JAMES L. MCKENNEY, WILLIAM F. MASSY, NETWORKS FOR RESEARCH AND EQUCATION: SHARING COMPUTER AND INFORMATICH RESOURCES NATIONNIOF, MIT PRESS, CAMBRIDGE, MA. 1973, P 44-50, 1 REFS LICKLIGER.

PROBABLE CHANGES THAT WILL RESULT FROM COMPUTER COMMUNICATION NETWORKS OF THE FUTURE ARE DISCUSSED FROM BOTH THE TECHNICAL AND SOCIAL POINTS OF VIEW. THE AUTHOR ENVISIONS A CONTINUALLY CHANGING CONFIGURATION OF 'NETWORK CONNECTING PEOPLE WITH CONSOLES TO OTHER PEOPLE WITH CONSOLES AND TO INFORMATION SYSTEMS AND SERVICES. SUCH A NETWORK WOULD BE INDEPENDENT OF THE GEOGRAPHICAL DISTRIBUTION OF ITS COMPONENT PARTS. (ALSO UNDER 1.5. 1.6) TWORKS

UTZ, FOBERT E., STATEWIOE PLANNING AND REGIONAL CENTERS. (STATE UNIVERSITY SYSTEM OF FLORIDA), THE FINANCING AND ORGANIZATION OF COMPUTING IN HIGHER EQUCATION: 1971, PROCEEDINGS OF THE EDUCOM SPRING CONFERENCE. (PHILADELPHIA, PA, APRIL 29, 1971), 1971, P 1D-17 (ANNOTATION UNDER 4.3) MAUTZ, ROBERT C.

MERIT PROPOSAL SUMMARY, MERIT COMPUTER NETWORK, ANN ARBOR, MI, FEB 7D, 9P (ANNOTATION UNDER 3-1+0)

BIBLIOGRAPHY

MILLER, JAMES G,, EDUCOM: INTERUNIVERSITY COMMUNICATIONS COUNCIL, INTERUNIVERSITY COMMUNICATIONS COUNCIL INC. (EOUCOM). PRINCETON, NJ. MAY 66, 22P

A BRIEF DESCRIPTION OF EDUCOM, THE INTERUNIVERSITY COMMUNICATIONS COUNCIL, IS FOLLOWED BY A PRESENTATION OF PLANS AND HOPES FOR INVOLVEMENT IN THE DEVELOPMENT OF NATIONAL INFORMATION NETWORKS, (ALSO UNDER 4.2.3)

NIELSEN, NORMAN R.. THE MERIT OF REGIONAL COMPUTING NETWORKS, (STANFORO UNIV., CA), Communications of the Acm. vol 14. Issue S. MAY 71. P 319-326. 3 REFS

THIS PAPER DESCRIBES SOME OF THE EXPERIENCES RELATED TO THE STANDARD REGIONAL COMPUTING NETWORK, A NATIONAL SCIENCE FOUNDATION FUNDED NETWORK PROVIDING TERMINALS TO HIGH SCHOLS AND COLLEGES IN THE AREA FOR ACCESS TO THE IBM 360/67 AT STANFORD. THE DISTINCTION BETWEEN SUPPLYING SERVICE TO THE NETWORK USERS AND JUST RAW COMPUTING POWER IS WELL DISPLAYED. PROBLEMS RELATED TO FACULTY INVOLVEMENT. COST JUSTIFICATION, ADEQUATE CAPACITY, AND CONSULTION ARE POINTED OUT. ONE OF THE ADVANTAGEOUS OUTCOMES OF THE NETWORK HAS BEEN THE STIMULATION OF INTEREST IN COMPUTING BY LARGE COMMUNITIES OF PREVIOUSLY UNEXPOSED INDIVIDUALS. (ALSO UNCER 3.1.2)

PACIFIC EOUCATIONAL COMPUTER NETWORK STUDY. HAWAII, UNIV. OF, HONOLULU, ALOHA SYSTEM, 31 MAR 75, HU TR-CN75-1, NSF GJ-33220, 12P

THE PACIFIC EQUCATIONAL COMPUTER NETWORK FEASIBILITY STUDY EXAMINED TECHNICAL AND NON-TECHNICAL ASPECTS OF THE FORMATION OF AN INTERNATIONAL PACIFIC AREA COMPUTER NETWORK FOR HIGHER EDUCATION. THIS IS A FINAL REPORT OF THAT STUDY. A BIBLIOGRAPHY OF MATERIALS PRODUCED BY OR CONTRIBUTED TO THE STUDY IS INCLUDED. (ALSO UNDER 3.0)

PECK, PAUL L., EFFECTIVE CORPORATE NETWORKING, ORGANIZATION, AND STANDARDIZATION, (MITRE CORP., WASHINGTON, OC), AFIPS PROCEEDINGS, 1971 FALL JOINT COMPUTER CONFERENCE, VOLUME 39, (LAS VEGAS, NV, NOVEMBER 16-18, 1971), AFIPS ORGENCE PROCEEDINGS, (LC SS-44701), P 561-569, 24 REFS

WITH AN EMPHASIS ON CORPORATE COMPUTING NETWORKS. THE NEGATIVE EFFECTS OF INCOMPATIBILITIES INTRODUCED WHEN NETWORKING OISSIMILAR SYSTEMS ARE DESCRIBED. HARDWARE. OPERATING SYSTEM. AND PROGRAMMING LANGUAGE INCOMPATIBILITIES ARE PRIMARY, WHILE GATA INCOMPATIBILITY IS CONSIDERED SECOND ORDER. THE ADVANTAGES OF NETWORKING ARE LISTED. CONCLUDING WITH AN ECONOMY OF SCALE ARGUMENT USING THE SUCCESSFUL TRIANGLE UNIVERSITY COMPUTER CENTER AS AN EXAMPLE. HOMOGENEOUS NETWORKS ARE INTRODUCED AS MOST DESIRABLE FOR CORPORATIONS, WITH CAREFUL ATTENTION GIVEN TO IMPLEMENTATION AND OPERATING PROCEDURES. ESPECIALLY STANDARDS.

PECK. PAUL L., THE IMPLICATIONS OF AOP NETWORKING STANDAROS FOR OPERATIONS RESEARCH, MITRE CORP., BEOFORD, MA, JUN 69, MC MTP-333, AF F19628-68-C-0365, (A0-696 675), ISP, S REFS

THIS ODCUMENT PRESENTS AN ELEMENTARY DISCUSSION OF SOME OF THE PROBLEMS PRESENTLY BEING EXPERIENCED BY OPERATIONS RESEARCHERS IN LARGE OECENTRALIZED DEGANIZATIONS (PRIMARILY IN A MILITARY ENVIRONMENT). NETWORKING IS SEEN AS A SOLUTION TO MANY OF THEIR PROBLEMS, BUT ONLY IF ADEOUATE AOP STANDARDS CAN BE ESTABLISHED AND ENFORCED FIRST. THE NEED FOR THE USER COMMUNITY TO PARTICIPATE IN THIS STANDARDIZATION IS EMPHASIZED. (ALSO UNDER 5.5)

POWELL, J. J., D. C. WODD, ANALYSIS OF NMCS PROBLEM AREAS RELATED TO COMPUTER NETWORKS AND PROPOSED NMCS NETWORK Objectives, mitre corp., Washington, Oc. 1 Apr 71, MC WP-9707. AF F19628-71-C-0002, 34P. 7 Refs

OPERATIONAL PROBLEM AREAS OF THE NATIONAL MILITARY COMMAND SYSTEM (NMCS) ARE ANALYZED AND CAPABILITIES OF COMPUTER NETWORKS WHICH COULD ALLEVIATE THESE PROBLEMS ARE IDENTIFIED. POTENTIAL PROBLEMS RAISED BY THE AVAILABILITY OF SUCH CAPABILITIES ARE ADDRESSED. OBJECTIVES OF AN NMCS COMPUTER NETWORK ARE PROPOSED AND THEIR IMPLICATIONS DISCUSSED. THE DISCUSSION IS WELL THOUGHT OUT AND NDT LIMITED IN APPLICABILITY TO THE NMCS.

ROBERTS, LAWRENCE G., MULTIPLE COMPUTER NETWORKS AND INTERCOMPUTER COMMUNICATION, ADVANCED RESEARCH PROJECTS AGENCY, WASHINGTON, DC, JUN 67, 12P, 3 REFS

DNE OF THE EARLIER WORKS DESCRIBING SOME OF THE CHARACTERISTICS OF THE THEN-PROPOSED ARPA NETWORK. THE PAPER INCLUDES SOME OF THE REASONS FOR A NETWORK: LOAD SHARING, INTERPERSONAL MESSAGE SERVICE, DATA SHARING, PROGRAM SHARING, AND REMOTE SERVICE. BENFFITS WERE EXPECTED THROUGH THE USE OF SPECIALIZED HAROWARE AND SYSTEM SOFTWARE AND THE DISTRIBUTED CODERATION OF LARGE NUMBERS OF PEOPLE ON SPECIFIC PROBLEMS. IT IS INTERESTING TO NOTE THAT THE RETWORK WAS ORIGINALLY INTENDED TO BE BASED ON DIAL-UP SERVICE.

- RUTLEOGE. RONALD M., ALBIN L. VAREHA. LEE C. VARIAN, ALLAN H. WEIS, SALOMON F. SEROUSSI, JAMES W. MEYER, JOAN F. JAFFE, MARY ANNE K. ANGELL, AN INTERACTIVE NETWORK OF TIME-SHARING COMPUTERS, (CARNEGIE-MELLON UNIV., PITTSBURGH, PA. PRINCETON UNIV., NJ. INTERNATIONAL BUSINESS MACHINES CORP., YORKTOWN HEIGHTS, NY. THOMAS J. WATSON RESEARCH CENTER), PROCEEDINGS OF 24TH NATIONAL CONFERENCE. ASSOCIATION FOR COMPUTING MACHINERY, (AUGUST 26-28, 1969), ASSOCIATION FOR COMPUTING MACHINERY, NEW YORK, 1969, ACM P-69, P 431-441, 13 REFS
- SANUELSON, KJELL, COPMUNICATING WITHIN A WORLD SYSTEM. (STOCKHOLM, UNIV. DF, (SWEDEN), ROYAL INST. OF TECH., STOCKHOLM, (SWEDEN)). THE SECOND INTERNATIONAL CONFERENCE ON COMPUTER COMMUNICATION. COMPUTER COMMUNICATION TODAY AND UP TO 1985, (STOCKHOLM, (SWEDEN), AUGUST 12-14, 1974). INTERNATIONAL COUNCIL OF ICCC, 1974, P 361-366, S RE⁵S
- SEDELOW, SALLY YEATES, WALTER A. SEDELOW, JR., LANGUAGE RESEARCH AND THE COMPUTER: A STUDY OF THE CONCEPT OF A NATIONAL CENTER OR NETWORK FOR COMPUTATIONAL RESEARCH ON LANGUAGE (CE-NCOREL), KANSAS, UNIV, OF, LAWRENCE, 1972, NSF GJ-28599, 4579, 41 REFS (ANNOTATION UNDER 4.2.9)

SILVERSTEIN, MARTIN E., COMPUTERS, COMMUNICATIONS, AND DISTRIBUTED HEALTH CARE SYSTEMS, (HEALTH ANALYSIS INC.,

ETTESDA, MAD, WINKLER, STANLEY, COMPUTER COMMUNICATIONS: IMPACTS AND IMPLEMENTATION. THE FIRST INTERNATIONAL CONFERENCE ON COMPUTER COMMUNICATION, (WASHINGTON, OC, OCTOBER 24-26, 1972), INTERNATIONAL CONFERENCES ON COMPUTER COMMUNICATION, 1972, ICCC 72-CHO-690-BC, NSF GJ-33239, P 463-464

THIS IS A GENERAL INTRODUCTION TO THE POTENTIAL USE OF COMPUTER COMMUNICATIONS IN THE HEALTH FIELD. IT CONCLUDES WITH A SPECIFIC EXAMPLE IN THE AREA OF EMERGENCY CARE WHERE A COMPUTER MAINTAINS CONSTANT INVENTORY OF TRAFFIC ROUTES AND EMERGENCY DEPARTMENT STATUS, ANALYSES INCOMING PHYSIOLOGICAL SIGNALS FROM PORTABLE DIAGNOSTIC EDUIPMENT, AND DIRECTS EMERGENCY VEHICLE TRAFFIC. (ALSO UNDER 4.2.1)

SUNG, R., J. B. WOODFORD, STUDY OF COMMUNICATION LINKS FOR THE BIDMEDICAL COMMUNICATIONS NETWORK, AEROSPACE CORP., EL SEGUNDD, CA, DIV. DF SATELLITE SYSTEMS, 29 MAY 69, AC ATR-69(7130-06)-1, NIH PH-43-68-991, 278P, 56 REFS (ANNOTATION UNDER 3.2.1)

WEEG, GERARD P., THE ROLE OF REGIONAL COMPUTER NETWORKS, (IDWA, UNIV. DF, IOWA CITY, COMPUTER CENTER), Levien, roger e., computers in instruction: their future for higher education, (detdeer 1-3, 1970), rand corp., santa Monica, ca, jul 71, re r-71e-instr-com-rec, p SS-66, 6 REFS

THDSE FACTORS THAT INFLUENCE THE DIRECTION OF REGIONAL COMPUTER NETWORKS IN HIGHER EDUCATION ARE ENUMERATED. A DESCRIPTIVE SECTION IS INCLUDED ON THE ADMINISTRATIVE PROBLEMS OF REGIONAL NETWORKS. THE DARTMOUTH, DREGON STATE, AND UNIVERSITY OF IDWA NETWORKS ARE DESCRIBED, INCLUDING A GDDO SUMMARY OF USAGE STATISTICS. (ALSO UNDER 5.0)

WEISS, EDWARD C., SCIENCE INFORMATION IN A CHANGING WORLD, (NATIONAL SCIENCE FOUNDATION, WASHINGTON, DC. OFFICE OF SCIENCE INFORMATION SERVICE), NETWORKS AND DISCIPLINES. PROCEEDINGS OF THE EDUCOM FALL COMFERENCE, (ANN ARBOR, MI, DCTDBER 11-13, 1973), 1973, P

THE DFFICE OF SCIENCE INFORMATION SERVICE (DSIS) HAS MANY PROGRAMS OF RESEARCH DN NETWORKING AND RESOURCE SHARING. AFTER A BRIEF HISTORY OF OSIS, THREE PROJECTS ARE DESCRIBED: 1) THE UNIVERSITY-CENTERED INFORMATION SYSTEM, 2) THE RESEARCH PROGRAM, A PROGRAM WITH TWO BASIC GOALS-TO DEVELOP TECHNICAL KNOWLEDGE NECESSARY FOR BETTER INFORMATION AND DATA RETIEVAL SYSTEMS AND TO EXTEND UNDERSTANDING OF THE INFORMATION-TRANSFER PROCESS, AND 3) THE DATA SYSTEMS PROGRAM, A PROGRAM TO STUDY THE HANDLING OF FACTUAL AND DUANTITATIVE DATA.

WHALEY, RANDALL M., PROMOTION AND ECONOMICS OF RESOURCE SHARING, (UNIVERSITY CITY SCIENCE CENTER, PHILAGELPHIA, PA),

1.1 OBJECTIVES

GREENBERGER, MARTIN, JULIUS ARONOFSKY, JAMES L. MCKENNEY, WILLIAM F. MASSY, NETWORKS FOR RESEARCH AND EDUCATION: SHARING COMRUTER AND INFORMATION RESOURCES NATIONWIDE, MIT PRESS, CAMBRIDGE, MA, 1973, P 34S-35S (ANNOTATION UNDER S+1)

1.2 SURVEY

AUFENKAMR, D. O., E. C. WEISS, NSF ACTIVITIES RELATED TO A NATIONAL SCIENCE COMPUTER NETWORK, INATIONAL SCIENCE FOUNDATION, WASHINGTON, DC).

WINKLER, STARLEY, COMRUTER COMMUNICATIONS: IMPACTS AND IMPLEMENTATION, THE FIRST INTERNATIONAL CONFERENCE ON COMPUTER COMMUNICATION, (WASHINGTON, OC, OCTOBER 24-26, 1972), INTERNATIONAL CONFERENCES ON COMPUTER COMMUNICATION, 1972, ICCC 72-CH0-690-8C, NSF GJ-33239, P 226-232, 1 REFS

THE NATIONAL SCIENCE FOUNDATION IS MOUNTING AN EXPANDED RESEARCH RROGRAM WHICH COULD LEAD TO THE DEVELOPMENT OF A NATIONAL SCIENCE CONRUTER NETWORK LINKING UNIVERSITIES, COLLEGES AND OTHER INSTITUTIONS IN SUPPORT OF RESEARCH AND EDUCATION, THIS ARTICLE IS A BRIEF COMRENOIUM OF RRESENTLY SUPPORTED PROJECTS AND ACTIVITIES WHICH RELATE TO SUCH A NATIONAL NETWORK. (ALSO UNDER 4.0)

CKER, J., W. C. OLSEN, INFORMATION NETWORKS, (INTERUNIVERSITY COMMUNICATIONS COUNCIL INC. (EOUCOM), PRINCETON. NJ), Cuadra, C. A., Annual Review of Information Science and Technology, volume 3, Encyclopedia Britannica Inc., Chicago, IL, Isob, (Zosy.alaos, LC 66-25096), p 289-327, I90 Refs BECKER, J., W. C. OLSEN, INFORMATION NETWORKS,

THIS REVIEW PRESENTS AN EXHAUSTIVE SURVEY OF DEVELOPMENTS IN THE AREA OF NETWORKING FOR THE YEAR 1967-68, DEVELOPMENTS ARE GROUPED INTO THREE MAIN AREAS FOR DISCUSSION: (1) EOUCATION, (2) LIBRARIES, AND (3) GOVERNMENT, INOUSTRY AND PROFESSIONAL SOCIETIES, THE COVERAGE, THOUGH BY NOW SOMEWHAT DATED, IS IMPRESIVE, THE BIBLIOGRAPHY CONTAINS 190 ENTRIES, IT IS RERHAPS MOST INTERESTING TO NOTE THE DIVERSITY OF PLANS FOR NETWORKS PUT FORTH FOUR YEARS AGO, AND SEE WHICH HAVE COME TO FRUITION TODAY. (ALSO UNDER 4-2-0)

BENVENUTO, A. A., J. R. GOOORDE, R. P. MORTON, SYSTEM LOAD SHARING STUDY, MITRE CORP., WASHINGTON, OC, 25 MAR 69, MTR 5062, AF F19628-68-C-0365, 95P

WHILE ONLY SUPERFICIALLY DESCRIBING THE BENEFITS, CONSTRAINTS, AND GENERAL CONSIDERATIONS IMPORTANT IN DECIDING WHETHER TC UTILIZE COMPUTER NETWORKING (IN THIS CASE FOR THE NATIONAL MILITARY COMMAND CENTER AND ASSOCIATED FACILITIES), THIS DOCUMENT CONTAINS SEVERAL SUMMARIES OF OPERATING NETWORKS, CIRCA 1968, THESE SUMMARIES APE NON-CRITICAL IN NATURE AND THE FAST-PACED DEVELOPMENTS IN NETWORKING RENDER THE BASIC CONFIGURATIONS SHOWN OBSOLETE IN AT LEAST A FEW CASES. (ALSO UNDER 1.1)

CANADA MEETS COMPUTER COMMUNICATION NEEDS, (TELECOMMUNICATIONS, DEDHAM, MA), TELECOMMUNICATIONS, VOL 6, ISSUE 9, SEP 72, P S2, S4

RECENT AND ANTICIPATED FUTURE DEVELOPMENTS IN DATA COMMUNICATIONS IN CANADA CAN BE FOUND IN THIS INTERESTING RECENT AND ANTICIPATED FOTOME FOTOMETED IN DATA COMMONICATIONS IN CANNOA CAN BE FOUND IN THIS INTERESTING SURVEY. A DESCRIPTION OF A COMMUNICATION SERVICE IS INCLUDED WHICH USES INICOMPUTERS AS COMMUNICATIONS CONTROLLERS, FRONT-ENDS FOR LARGER HOST COMPUTERS, REMOTE CONCENTRATORS FOR TERMINALS, STORE-AND-FORWARD MESSAGE-SWITCHING NODES, OR FOR COMBINATIONS OF THESE FUNCTIONS. (ALSO UNDER 3.1.0)

IAM®LEE, J+ A+, OPERATIONAL CONSIDERATIONS FOR THE IMPLEMENTATION OF COMPUTER NET₩ORKS IN THE NMCSSC, MITRE CORP., WASHINGTON, OC+ I JUL 70, MC ₩P-9S98, AF F19628-68-C-0365, S9P, S REFS CHAMBLEE,

THREE OPERATIONAL COMPUTER FACILITIES OF THE NATIONAL MILITARY COMMAND SYSTEM (NMCS) ARE GESCRIBEO IN TERMS OF EXISTING CONNECTIVITY, WORK FLOW, WORKLOAD CHARACTERISTICS, HARDWARE, SOFTWARE, OATA BASES, DPERATING RULES, AND OPERATIONAL PROBLEMS. THE FACILITIES ARE THE NATIONAL MILITARY COMMAND SYSTEM SUPPORT CENTER (NMCSC), THE NATIONAL MILITARY COMMAND CENTER (NMCC), AND THE ALTERNATE NATIONAL MILITARY COMMAND CENTER (ANMCC), DESIRABLE FEATURES OF ANY NETWORKING SCHEME TO BE INSTALLED IN THE NMCS ARE IDENTIFIED, THREE EXISTING PROPOSEON RETWORKING APPROACHES, ATTACHED SUPPORT PROCESSOR (ASP), DATA LINK SUPPORT (DLS), AND THE AREA NETWORK, ARE DISCUSSED RELATIVE TO THE DESTRABLE FEATURES.

VIES, QONALO W., NEW DATA NETWORKS IN EUROPE, (NATIONAL PHYSICAL LAB., TEODINGTON, (ENGLAND)) Telecommunications, vol 9, Issue 6, Jun 75, P 22-25, 47, 12 REFS CAVIES. CONALO

THIS ARTICLE INTRODUCES AND BRIEFLY DESCRIBES SIX EUROPEAN COMPUTER NETWORKS AS WELL AS MENTIONING THE ARPANET LINKS TO EUROPE, PROBLEMS OF INTERCONNECTION AND STANDARDS ARE ALSO BRIEFLY ADDRESSED.

DAVIS, RUTH M., MAN-MACHINE COMMUNICATION, (AOVANCED RESEARCH PROJECTS AGENCY, WASHINGTON, OC), CAUDRA, CARLOS A., ANNUAL REVIEW OF INFORMATION SCIENCE AND TECHNOLOGY. VOLUME 1, WILEY (JOHN) AND SONS, NEW YORK, 1966, Adi Annual Review Series, (C. 66-25096), P 221-254, 99 Refs

THIS 'FIRST ANNUAL REVIEW OF THE FIELD OF MAN-MACHINE COMMUNICATION' IS A STRAIGHTFORWARD DISCUSSION OF CONCEPTS IN MAN-MACHINE COMMUNICATION AND THE LITERATURE RELEVANT TO THOSE CONCEPTS. TIME-SHARING, INTERACTIVE LANGUAGES, CO-LINE APPLICATIONS, INTERACTIVE DISPLAYS, PROBLEM SOLVING, AND APPLICATIONS TO SPECIFIC USER GROUPS ARE COVERED. LITERATURE IS CONSIDERED PERTINENT TO ONE OF THE CONCERTS IF IT CONTAINS DESCRIPTIONS OF PARTICULAR APPLICATIONS, EQUIPMENT OR PROBLEM AREAS; PROVIDES COMPREMENSIVE COVERAGE OF A TOPIC; ADVANCES A WORTHY APPROACH OR CONCEPT; OR HIGHLICHTS AN IMPORTANT POINT MADE BY THE REVIEWER. (ALSO UNDER 2.3)

OE GENNARO, RICHARO, MAJOR TRENOS IN LIBRARY COMPUTERIZATION, (PENNSYLVANIA, UNIV, OF, PHILADELPHIA), FACTS AND FUTURES, WHAT'S HAPPENING NOW IN COMPUTING FOR HIGHER EDUCATION, PROCEEDINGS OF THE EDUCOM FALL CONFERENCE, (PRINCETON, NJ, OCTOBER 9-11, 1973), INTERUNIVERSITY COMMUNICATIONS COUNCIL INC, (EDUCOM), PRINCETON, NJ, 1974, (LC 74-73222), P 282-286

CO-OPERATIVE COMPUTER-BASED NETWORKS, VENOOR-SUPPLIED SYSTEMS AND SERVICES, AND PACKAGE SYSTEMS ARE IDENTIFIED AS THE THREE MAJOR CATEGORIES OF ACTIVITIES AND TRENDS IN LIBRARY AUTOMATION. THE CATEGORIES ARE DEFINED INCLUDING EXAMPLES OF EXISTING IMPLEMENTATIONS, (ALSO UNDER 4-1,0)

EOUCATIONAL COMPUTER NETWORKS, WHERE IS THE BOOM HEADING?, GOVERNMENT DATA SYSTEMS, VOL 3, ISSUE 3, MAY-JUN 73, P 14-IS, 18, 31, 35

REGIONAL COMPUTER NETWORKS SERVING COLLEGES. UNIVERSITIES. SECONDARY SCHOOLS AND RESEARCH HOSPITALS HAVE BEEN DEVELOPED AND FUNCTIONING SINCE THE LATE 1960S. THIS ARTICLE DESCRIBES SOME OF THE PROBLEMS AND DECISIONS WHICH MUST BE FACED BY THESE NETWORKS. DETAILS GIVEN ON MANY NETWORKS AND LISTS OF NSF FUNDED REGIONAL COMPUTATIONAL NETWORKS AND OF LIBRARY NETWORKS ARE PROVIDED. (ALSO UNDER 4.2.3)

ELIE, MICHEL, GENERAL PURPOSE NETWORKS OF COMPUTERS, CALIFORNIA, UNIV. OF, LOS ANGELES, 1970, 125P, 46 REFS

THIS THESIS IS A SURVEY OF THE FIELO OF GENERAL PURPOSE COMPUTER NETWORKS AND A DISCUSSION OF SOME OF THE RELEVANT CONCEPTS, A VARIETY OF NETWORKS ARE DISCUSSED AND AN ATTEMPT IS MAGE TO CATEGORIZE THEM, MODELING TECHNIQUES IN COMPUTER NETWORKS ARE SURVEYED AND APPLIED TO DATA SHARING AND LOAD SHARING. SOME OF THE PRESENT DAY IDEAS ON INTERPROCESS COMMUNICATION ARE REVIEWED, FINALLY THE HOST-HOST PROTOCOL OF THE ARPANET IS DESCRIBED AND A SPECIFIC SITE IMPLEMENTATION IS ANALYZEO. (ALSO UNDER 2.1.2)

ELOVITZ, HONEY S .. CONSTANCE L. HEITMEYER. WHAT IS A COMPUTER NETWORK ?. (NAVAL RESEARCH LAB., WASHINGTON, OC). IEEE 1974 NATIONAL TELECOMMUNICATIONS CONFERENCE, (SAN DIEGO, CA, DECEMBER 2-4, 1974), INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YORK, 1974, IEEE P-74CH0902-7-CSCB, (LC S7-20724), P 1007-1014, 16 REFS

COMPUTER NETWORKS ARE CLASSIFIED ACCORDING TO THE DEGREE OF TRANSPARENCY PRESENTED BY THE NETWORK TO THE USER. THE PRIMARY DISTINCTION BETWEEN THE TWO CLASSES SUGGESTED IS IN RESPONSIBILITY FOR MANAGING COMPUTER RESOURCES. IN THE FIRS CLASS, THE RESPONSIBILITY FOR RESOURCE MANAGEMENT FALLS ON THE USER; IN THE SECONG CLASS THE USER IS A IDEO IN THE ACQUISITION AND HANDLING OF NEEDED RESOURCES BY A NETWORK OPERATING SYSTEM. THESE CONCEPTS ARE DISCUSSED WITH REFERENCE TO EXAMPLES FROM TYMNET, ARPANET, OCS (UNIVERSITY OF CALIFORNIA - IRVINE) IN THE FIRST

I.2 SURVEY

AND OCN (UNIVERSITY OF MARYLAND).

FARBER, DAVID J., NETWORKS: AN INTRODUCTION, (CALIFORNIA, UNIV. OF, IRVINE), DATAMATION, VOL 18, ISSUE 4, ARR 72, P 36-39

A BRIEF COMMARISON OF SEVERAL COMPUTER NETWORKS IS RRESENTED. THE DIAGRAM OF THE ARPA NETWORK IS NOW OUT OF DATE AND CYDERNET HAS ALSO SINCE BEEN RESTRUCTURED. SOME INTERESTING SUMMARIZING COMMENTS ARE MADE AND THE ARTICLE IS USEFUL AS A 'SNAP SHOT' INTEODUCTION TO SOME OF THE EXISTING COMMUTER NETWORKS.

GAINES, EUGENE C., JR., JANET M. TAPLIN, THE EMERGENCE OF NATIONAL NETWORKS REMOTE COMPUTING--YEAR VI. (TIME-SHARING ENTERPRISES INC., PHILADELENIA, RA). TELECOMMUNICATIONS, VOL S. ISSUE 12, OEC 71, P 27-29, 44-46

DEVELORMENTS FOR THE YEAR 1971 IN THE AREA OF PUBLIC NATIONAL COMPUTER-COMMUNICATIONS NETWORKS ARE SUMMARIZED. A NUMBER OF SUCH NETWORKS ARE BRIEFLY SURVEYED INCLUDING CYBERNET, UCC, DATRAN, GE, ON-LINE SYSTEMS, SBC, COM-SHARE, TYMSHARE, AND INFONET.

HEAFNER, JOHN F., ERIC F. HARSLEM, LARGE-SCALE SHARING OF COMPUTER RESOURCES, (USC INFORMATION SCIENCES INST., MARINA OEL REY. CA, RANO CORP., SANTA MONICA. CA). 1972 WESCON TECHNICAL PARERS. SESSION 7: COMPUTER NETWORKS, (PRESENTED AT, WESTERN ELECTRONIC SHOW AND CONVENTION, SEPTEMBER 19-22, 1972), 1972, P 7-1-1--7-1-8, 17 REFS

SOME OF THE PAST AND CURRENT EFFORTS IN NETWORKING ARE REVIEWED. THE RARER PRESENTS A GENERAL OVERVIEW OF THE ECONOMIC AND TECHNICAL ISSUES OF NETWORKS AND BRIEFLY MENTIONS SOME OF THE LEGAL AND SOCIAL ASPECTS. THE FUNDAMENTAL PURDOSE OF ALL OF THE NETWORKS DESCRIBED WAS RESOURCE SHARING BUT EACH INVOLVES A DIFFERENT CONFIGURATION OF COMPUTER AND COMMUNICATION FACILITIES.

HIRSCH, PHIL, MULTI-ACCESS COMRUTER NETWORKS, OATAMATION, VOL 16, ISSUE 6, JUN 70, P IS3-IS4 (ANNOTATION UNDER 4,3)

KIRSTEIN, RETER T., ON THE DEVELORMENT OF COMPUTER AND OATA NETWORKS IN EURORE, (LONDON, UNIV. OF, (ENGLAND)), WINKLER, STANLEY, COMPUTER COMMUNICATIONS: IMPACTS AND IMPLEMENTATION. THE FIRST INTERNATIONAL CONFERENCE ON COMPUTER COMMUNICATION, (WASHINGTON, DC, OCTOBER 24-26, 1972), INTERNATIONAL CONFERENCES ON COMPUTER COMMUNICATION, 1972, ICCC 72-CH0-690-BC, NSF GJ-33239, P 240-244, ID REFS

AS AN INTRODUCTION TO ATTEMPTS TO START GENERAL RURAOSE DISTRIBUTED COMPUTER NETWORKS IN EUROPE, THE MORE SUCCESSFUL CENTRALIZED NETWORKS AND SPECIAL RURROSE NETWORKS ARE DISCUSSED. RROPOSALS FOR SPECIAL DATA NETWORKS TO HANGLE LOW AND MEDIUM SREED TRAFFIC ARE DESCRIBED AND PREDICTIONS ARE MADE ON THE WAY THAT COMPUTER NETWORKS WILL DEVELOP IN EURORE. (ALSO UNDER 4-3)

- LISANDRELLO, GEORGE J., WORLO DATA COMMUNICATIONS AS SEEN BY THE DATA RROCESSING SYSTEMS DESIGNER, (IBM WORLD TRADE CORP., NEW YORK), JACKSON, PETER E., PROCEEDINGS. ACM/IEEE SECOND SYMPOSIUM ON RROBLEMS IN THE OPTIMIZATION OF DATA COMMUNICATION SYSTEMS, (PALD ALTO, CA, OCTOBER 20-22, 1971), 1971, IEEE CAT-71CS9-C, P 130-136 (ANNOTATION UNDER 3.2.1)
- MAKINO, YASUO, DATA COMMUNICATION IN JARAN, (MINISTRY OF POSTS AND TELECOMMUNICATIONS, TOKYO, (JAPAN)), WINKLER, STANLEY, COMPUTER COMMUNICATIONS: IMPACTS AND IMPLEMENTATION. THE FIRST INTERNATIONAL CONFERENCE ON COMPUTER COMMUNICATION, (WASHINGTON, OC, OCTOBER 24-26, 1972), INTERNATIONAL CONFERENCES ON COMPUTER COMMUNICATION, 1972, ICCC 72-CH0-690-BC, NSF GJ-33239, P B-16

THE GROWTH OF TELECOMMUNICATIONS SERVICES IN JAPAN IS SUMMARIZED, WITH SRECIAL ATTENTION TO HOW THAT GROWTH HAS BEEN LIMITED BY REGULATION. THE REVIEW RROVIDED IN THIS ARTICLE SEEMS TO BE COMBREHENSIVE. (ALSO UNDER 5.4)

MARRON, BEATRICE, ELIZABETH FONG, DENNIS W. FIFE, KIRK RANKIN, A STUDY OF SIX UNIVERSITY-BASED INFORMATION SYSTEMS, NATIONAL BUREAU OF STANDAROS, WASHINGTON, OC, INST. FOR COMPUTER SCIENCES AND TECHNOLOGY, JUN 73. NBS TN-781, NSE CA68, 90P

A METHODOLOGY FOR CATEGORICALLY DESCRIBING COMPUTER-BASED INFORMATION SYSTEMS WAS DEVELORED AND ARRLIED TO SIX UNIVERSITY-BASED. NSF-SUPPORTED SYSTEMS. THE SYSTEMS UNDER STUDY ALL OPERATE AS RETAIL INFORMATION CENTERS PRIMARILY SERVING CAMPUS COMMUNITIES BY ACCESSING LARGE COMMERCIALLY-AVAILABLE DATA BASES USING THIRD GENERATION COMPUTER COMFIGURATIONS. THE SYSTEMS VARY IN DESIGN PHILDSOPHY. MODE OF USER SERVICE. TRANSFERABILITY CHARACTERISTICS. AND OPERATIONAL STATUS. A SUMMARY MATRIX IS INCLUDED. (ALSO UNDER 4.2.9)

MCKENNEY, JAMES L., REGIONAL COMPUTING SYSTEMS. REPORT OF WOPKSHOP B, (HARVARD UNIV., CAMBRIDGE, MA, GRADUATE SCHOOL OF BUSINESS ADMINISTRATION), GREENBERGER, MARTIN, JULIUS ARONOFSKY, JAMES L. MCKENNEY, WILLIAM F. MASSY, NETWORKS FOR RESEARCH AND EDUCATION: SHARING COMPUTER AND INFORMATICN RESOURCES NATIONWIDE, MIT PRESS, CAMBRIDGE, MA, 1973, P 288-295

THE WORKSHOP DISCUSSES SOME SUCCESSFUL REGIONAL NETWORKS, I.E., TUCC, NERCOMP, AND MERIT, AND THE FACTORS IMPORTANT IN THEIR DEVELOPMENT. THE CONCLUSION ENUMERATES FUNCTIONS THAT NEED FURTHER SUPPORT.

WUENCH, P. E., COMMON CARRIER APPROACH TO DIGITAL OATA TRANSMISSION: TERMINALS, TRANSMISSION EQUIPMENT AND FUTURE PLANS FOR THE COMPUTER UTLLITY, (BELL TELEPHONE LABS. INC., HOLMOEL, NJ). GRUENBERGER, F., COMPUTERS AND COMMUNICATIONS-TOWARD A COMPUTER UTILITY, PRENTICE-HALL INC., ENGLEWOOD CLIFFS, NJ, 1968, (TK 5101.C67. LC 68-16776), P.79-94, I REFS

A HISTORY OF DATA COMMUNICATIONS IS GIVEN OURING THE SECOND GENERATION COMPUTER ERA, IN ACCITION TO SOME INSIGHT INTO *RECENT* (1968) INNOVATIONS, AND A PREDICTION FOR THE FUTURE. (ALSO UNDER 4.3)

NIELSEN, NORMAN R., NETWORK COMPUTING. (STANFORD UNIV., CA. WELLSCD DATA CORP.). GREENBERGER, MARTIN, JULIUS ARCNOFSKY, JAMES L. MCKENNEY, WILLIAM F. MASSY, NETWORKS FOR RESEARCH AND EDUCATION: SHARING COMPUTER AND INFORMATION RESOURCES NATIONNIDE, MIT PRESS, CAMBRIDGE, MA. 1973, P 64-73, I REFS

THIS PAPER PRESENTS A SUMMARY OF PROBLEMS AND ISSUES UNCOVERED OURING A STUDY OF SOME REGIONAL COMPUTING NETWORKS FUNDED BY THE NATIONAL SCIENCE FOUNDATION. THESE ARE NETWORKS DEVELOPED PRIMARILY FOR STUDENT EDUCATION OR CURRICULUM OEVELCRMENT. ALTHOUGH THE FINDINGS OF THE STUDY MAY NOT ALL APPLY DIRECTLY TO NATIONAL NETWORKS, MANY OF THE ISSUES ARE RELEVANT. (ALSO UNDER 2.3, S.7)

NORWOOD, FRANK W., TELECOMMUNICATIONS PROGRAMS AFFECTING NETWORK GEVELOPMENT, BECKER, JOSEPH, PROCEECINGS OF THE CONFERENCE ON INTERLIBRARY COMMUNICATIONS AND INFORMATION NETWORKS. (WARRENTON, VA, SEPTEMBER 28-OCTOBER 2, 1970), AMERICAN LIBRARY ASSOCIATION, CHICAGO. IL, 1971, DEC 0-9-230268-4235(09S), (LC 70-18596), P S9-68, 24 REFS

AN IN-DEPTH SURVEY OF EVENTS AND ISSUES IN THE TELECOMMUNICATIONS FIELD FOR THE PERIOD 1968-1970 IS PRESENTED. THE TREATMENT IS PRIMARILY FROM AN ENTREPRENEURAL POINT OF VIEW AND EMPHASIZES PUBLIC POLICY AS REPRESENTED BY DECISIONS AND CONCERNS OF THE FEDERAL COMMUNICATIONS COMMISSION. (4150 UNDER 5.4)

OVERHAGE, CARL F. J., INFORMATION NETWORKS, (MASSACHUSETTS INST. OF TECH., CAMBRIDGE), CUADRA, C. A., ANNUAL REVIEW OF INFORMATION SCIENCE AND TECHNOLOGY. VOLUME 4, ENCYCLOPEDIA BRITANNICA INC., CHICAGO, IL, 1969, (Z699,AIA65.V.4, LC 66-25096), P 339-377, 14S REFS

THIS IS A GOOD OVERVIEW OF ACTIVITIES RELATED TO INFORMATION NETWORKS. THE PAPER FIRST FUNCTIONALLY DESCRIBES THE VARIOUS CONTEXTS OF THE WORD 'NETWORKS'. THEN, SPECIFIC NETWORKS ARE REVIEWED AS TO UTILITY. INCLUDING LIBRARY NETWORKS, MEDICAL NETWORKS, HOSPITAL NETWORKS, GOVERNMENT AND BUSINESS NETWORKS, AND REAL-TIME INFORMATION NETWORKS. PROBLEMS OF (ALSO UNDER 4.2.0)

BIBLIOGPAPHY

PETERSON, JACK J., SANORA A. VEI F19628-71-C-0002, 87P, 37 REFS VEIT, SURVEY OF COMPUTER NETWORKS, MITRE CORP., WASHINGTON, OC, SEP 71, MC MTP-357, A

A GOOD, OBJECTIVE SURVEY OF EXISTING NETWORKS IS PRESENTED. THE NETWORKS COVEPED ARE: ARPA, COINS, CYBERNET, OCS (Irving), Ols (Milliary), Merit, Networ/440, Octopus, TSS, and Tucc+ Each network is described in terms of configuration, communications, Usace, and Manacement.

COMPUTER GRAPHICS COMMUNICATION SYSTEMS, (NEW SOUTH WALES, UNIV. OF, KENSINGTON, LAUSTRALIA), OPT. OF ELECTRUNIC CUMPUTATION); INFORMATICN PROCESSING 68; FROCEEDINGS OF IFIP CONGRESS 1968, VOLUME 2--HAROWARE, APPLICATIONS, (EDINBURGH, (SCOTLANO), AUGUST S-10. 1968), NORTH-HOLLAND PUBLISHING CO., AMSTERDAM, (NETHERLANDS), 1969, IFIP CONGRESS PROCEEDINGS, (LC 65-24[18], P 692-703, 20 REFS

AN EARLY DISPLAY COUPLED DIRECTLY TO A COMPUTER AND A BUFFERED DISPLAY WITH A LOCAL PROCESSOR ARE REVIEWED. THREE RECENT SCHEMES WHICH HAVE EVOLVED FROM THESE ARE THEN COMPARED. EACH AIMS FOR LOW-COST GRAPHICAL COMMUNICATION WITHIN A MULTI-TEPMINAL SYSTEM. THE THREE DISPLAY SYSTEMS DISCUSSED ARE THE ADVANCED REMOTE DISPLAY STATION II PROJECT. THE INTERGRAPHIC PROJECT, AND THE IBM ISOD INSTRUCTIONAL DISPLAY SYSTEM. THE PAPER ASSERTS THAT THE TECHNIQUES OF THESE RECENT SCHEMES. SUPPLEMENTED WITH WIRED VIDEO BROADCASTING TECHNIQUES, COULD BE USED TO LINK THOUSANDS OF TERMINALS TO A CENTRAL COMPUTER(S) AT LOW CDST. A POSSIBLE CONFIGURATION IS PROPOSED. (ALSO UNDER 4.3)

HWAPTZ, MISCHA, ROBERT R. BOORSTYN, RAYMOND L. PECKHOLTZ, TERMINAL-ORIENTEO COMPUTER-COMMUNICATION NETWORKS, (POLYTECHNIC INST. OF BROUNLYN, NY, GEORGE WASHINGTON UNIV., WASHINGTON, OC). PROCEEDINGS OF THE IEEE, VOL 60. ISSUE II, NOV 72. P 1408-1423, IG REFS SCHWAPTZ. MISCHA.

FOUR OPERATING COMPUTER-COMMUNICATION NETWOPKS, TYMNET, GE INFORMATIDN SERVICES, NASGAG AND INFONET ARE described in this paper, fratures considered for each network include; network structure, message handling, communications requirements, routing, reliability and design fratures.

IMMS, ROBERT L., JR., TRENOS IN COMPUTER/COMMUNICATION SYSTEMS, (BELL TELEPHONE LABS, INC., HOLMOEL, NJ, DEPT, OF Computer communications engineering), Computers and automation, vol 17, ISSUE 5, May 68, P 22-25 SIMMS. ROBERT L..

A NUMBER OF TRENDS IN COMMUNICATIONS AND THE IMPLICATIONS OF THOSE TRENDS ARE VERY BRIEFLY DISCUSSED INCLUDING THE Increase in rendte un-line access to computers, higher data transmission rates, clustering of computing power, use of Integrated circuits and modem packaging techniques, push-button telephones as data terminals, and digital transmission SYSTEMS

SWANSON, ROMENA W., INFORMATION SYSTEM NETWORKS--LET'S PROFIT FROM WHAT WE KNOW, (PRESENTED AT, THIRO ANNUAL COLLODUIUM ON INFORMATICN RETRIEVAL, PHILADELPHIA, PA, MAY 12-13, 1966), AIR FORCE OFFICE OF SCIENTIFIC RESEARCH, ARLINGTON, VA, O IRECTOPATE OF INFORMATION SCIENCES, JUN 66, AFOSR 66-0873, (A0-37 488), 489, 217 REFS

USEFUL SURVEY OF LARGE SCALE INFORMATION SYSTEMS CIRCA 1966 IMPLEMENTED IN MANY SECTORS OF GOVERNMENT AND INDUSTRY IS PRESENTED.

- THE COMMUNICATIONS MINICOMPUTER. (TELECOMMUNICATIONS, DEDHAM, MA), TELECOMMUNICATIONS, VOL 6, ISSUE 10, OCT 72, P IS-16, IB, 20, 22 (ANNOTATION UNDER 3.2.3)
- WEEG, GERARO P., REGIONAL STAP NETWORKS AS SEEN BY THE USER AND SERVER, (IOWA, UNIV. OF, IOWA CITY), GREENBERGER, MARTIN, JULIUS ARONOFSKY, JAMES L. MCKENNEY, WILLIAM F. MASSY, NETWORKS FOR RESEARCH AND EDUCATION: SHARING COMPUTER AND INFORMATION RESOURCES NATIONWIDE, MIT PRESS, CAMBRIDGE, MA, 1973, P 320-337

THE IOWA, TEXAS, AND DARTMOUTH NETWORKS ARE DISCUSSED. ABUNDANT STATISTICS ARE INCLUDED CONCERNING OPERATIONAL COSTS (PERSONNEL AND EQUIPMENT), SERVICE SCHEDULES, HARDWARE CONFIGURATIONS, SPACE REQUIREMENTS, VOLUME OF INPUT AND OUTPUT, USER STATISTICS, USAGE STATISTICS, AND COST TO MEMBER COLLEGES.

WOOO, OAVIO C., A SURVEY OF THE CAPABILITIES OF B PACKET SWITCHING NETWORKS, (MITRE CORP., MCLEAN, VA), proceedings of the 1975 symposium-computer networks: trends and applications, (Gaithersburg, Mo, June 18, 1975), institute of electronics encineers inc., New York, 1975, 75CH0979-8C, P 1-7, 22 REFS

THIS INFORMATIVE PAPER SURVEYS EIGHT PACKET SWITCHING COMPUTER NETWORKS WITH EMPHASIS ON THEIR CAPABILITIES AND THE THE PAPER IS DEFINITELY GEARED TOWARDS A POTENTIAL NETWORK USER AND IS NOT CONCERNED WITH INTERNAL CHARACTERISTICS OF THE NETWORKS, SUCH AS ROUTING STRATEGIES AND PACKET FORMATS. (ALSO UNDER 3.1.0)

1.3 TUTORIAL

BALL, CHRISTOPHER J., COMMUNICATIONS AND THE MINICOMPUTER, COMPUTER, VOL 4. ISSUE S. SEP-OCT 71. P I3-21. S REFS

THE VARIETY OF FUNCTIONS THAT A MINICOMPUTER CAN PEDFORM IN A DATA COMMUNICATIONS NETWORK ARE DISCUSSED, GOOD DESCRIPTIONS OF MESSAGE CONCENTRATION, ADAPTIVE LINE SPEED CONTROL, LINE POLLING, ERROR DETECTION AND CORPECTION FRONT-END_PROCESSING, AND MESSAGE-SWITCHING ARE INCLUDED. 6000 (ALSO UNDER 3.3.2)

BECKEP, MAL B., INFORMATION NETWOPK DESIGN CAN BE SIMPLIFIED STEP-BY-STEP. (HONEYWELL INFORMATION SYSTEMS INC., PHOENIX, AZ), COMPUTER DECISIONS, VOL 4, ISSUE I0, OCT 72, P 14-I7

THIS ARTICLE SUGGESTS THAT PUTTING TOGETHEP AN INFOPMATION PROCESSING NETWOPK CAN BE VIEWED AS THE GPOWTH OF A TPEE, THE FIRST CONSIDERATION IS THE TYPE OF NETWORK THAT IS DESIPEO (THE POOTS) AND THE NETWORK PROCESSING THAT WILL BE NECESSARY (THE TRNNK). THE NEXT STAGE IS TO EXAMINE THE NETWORK AND CONTROL FUNCTIONS (PRIMARY BRANCHES) AT THE OVEPALL AND SPECIFIC FUNCTION LEVELS (SECONCARY BRANCHES). FINALLY THE DESIGNER SHOULD EXAMINE THE AVAILABLE HARDWARE AND SOFTWARE (LEAVES). THE ANALOGY IS SOMEWHAT ANTIFICIAL, AS IS THE ACCOMPANYING ILLUSTRATION, BUT THE LAYRED APPOACH TO SPECIFICATION IS VALIO. AS A TUTORIAL EXPOSITION OF THAT APPPOACH THE ARTICLE IS FAIRLY GOOD.

BERNARO, DAN, INTERCOMPUTER NETWORKS: AN OVERVIEW AND A BIBLIDGRAPHY, PENNSYLVANIA, UNIV, OF, PHILAOELPHIA, WHARTON SCHOOL, MAY 73, ONR NO0014-67-A-0216-0007, (A0-769 232), 250P

THIS EFFORT PEPRESENTS A GOOD INTRODUCTION TO NETWORKS OF COMPUTERS, MEREIN REFERRED TO AS INTERCOMPUTER NETWOPKS, APPLICATION AREAS, LOGICAL AND PHYSICAL CONNECTIONS, AND MANAGEMENT ASPECTS ARE AMONG THE TOPICS DISCUSSED. (ALSO UNDER 5.0)

BLANC, POBERT P., PEVIEW OF COMPUTER NETWORKING TECHNOLDGY, NATIONAL BUPEAU OF STANOAROS, WASHINGTON, OC, INST, FOR COMPUTER SCIENCES AND TECHNOLOGY, JAN 74, NBS TN-804, NSF AG-350, 135P, 41 REFS

THIS REPORT GIVES A DESCRIPTIVE SUMMARY OF THE TECHNICAL CHARACTERISTICS OF EXISTING COMPUTER NETWORKS, "NCLUCING INCLUSION OF A DESCRIPTIVE SUMMANT OF THE TECHNICAL CHARACTERISTICS OF EXISTING COMPUTER NETWORKS, INCLUDING OATA COMMUNICATION TECHNOLOGY AND CONFICURATION RELATED TO SUPPORT OF RESOURCE SHARING SERVICES FOR A COMPUTER NETWORK, INCLUGED ARE DISCUSSIONS OF TERMINAL SUPPORT CAPABILITIES FOR THE COMMUNICATIONS NETWORK AND A DEVELOPMENT OF RELEVANT NETWORK TERMINOLOGY. THE REPORT CONCLUDES WITH A COMPARATIVE EVALUATION OF EXISTING TECHNOLOGICAL APPERDACHES TO NETWORKING. (ALSO UNDER 3.4.0)

- DLT, RICHARD H., THE CHALLENGE OF MANAGING COMPUTER NETWORKS. (BDLT, BERANEK AND NEWMAN INC., CAMBRIDGE, MA), Gheenbergep, martin, julius ardnofsky, james L. McKenney, William F. Massy, networks for Research and Education: sharing Computer and Imformation Resources nationNige, Mit Press, Cambridge, Ma, 1973, p 290-310 BOLT, RICHARO H., (ANNOTATION UNDER 5.0)
- COTTON, IRA W., COMPUTER NETWORKS: CAPABILITIES AND LIMITATIONS, (NATIONAL BUREAU OF STANDARDS, WASHINGTON, OC, INST FOR COMPUTER SCIENCES AND TECHNOLOGY), PILKEY, W., K. SACZOLSKI, H. SCHAEFFER, STRUCTURAL MECHANICS COMPUTER PROGRAMS: SURVEYS, ASSESSMENTS, AND AVAILABILITY, VIRGINIA, UNIV. OF PPESS, CHAPLOTTESVILLE, 1974, P 1043-1055, 25 REFS

THIS PAPER PPDVIDES AN INTPODUCTION TO THE CAPABILITIES AND LIMITATIONS INVOLVED WITH THE USE OF TODAY'S COMPUTER NETWORKS. EMPHASIS IS ON THE APPLICABILITY OF NETWORKS FOR A WIGE RANGE OF APPLICATIONS -- AND THE EQUALLY WIDE RANGE OF PROBLEMS.

1.3 TUTORIAL

- DIAMOND, F., R. JOHNSON, O. MCAULIFFE, SOME RECENT APPLICATIONS OF AUTOMATIC DATA PROCESSING TO TELECOMMUNICATIONS, (ROME AIR DEVELOPMENT CENTER, GRIFFISS AFB, NY), IEEE 1974 NATIONAL TELECOMMUNICATIONS CONFERENCE, (SAN DIEGO, CA, DECEMBER 2-4, 1974), INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YORK, 1974, IEEE p-74CH0902-7-CSCB, (LC S7-20724), P 482-490, 13 REFS (ANNOTATION UNDER 3.2.0)
- OUL, DIXON R., DR., TELECOMMUNICATIONS TURBULENCE AND THE COMPUTER NETWORK EVOLUTION. (DAW TELECOMMUNICATIONS CORP., ANN ARBOR, MI}, CCMPUTER, VOL 7, ISSUE 2, FEB 74, P 13-22, 53 REFS

THIS ARTICLE IS EXCELLENT READING BECAUSE IT NOT ONLY PRESENTS AN OVERVIEW OF COMPUTER NETWORKS, BUT ALSO INDICATES POTENTIAL PROBLEM AREAS. OOLL BEGINS BY OFFINING WHAT ELEMENTS COMPRISE A NETWORK POINTING TO ALREADY EXISTENT NETWORKS, NETWORK DEGANIZATION, MODES OF USAGE, AND PACKET SWITCHING ARE ANONG THE TOPICS DISCUSSED. THE AUTHOR POINTS TO PROBLEM AREAS BOTH IN THE TECHNOLOGICAL AND ECONOMICS OF NETWORKING IS STILL UNANSWERED. (ALSO UNDER 3.0, 3.2.0)

DORFF, ERVIN K., COMPUTERS AND COMMUNICATIONS: COMPLEMENTING TECHNOLOGIES, (COMPUTER COMMUNICATIONS INC., INGLEWOOD.

CA), COMPUTERS AND AUTOMATICN, VOL 18, ISSUE S, MAY 69, P 22-23

THIS ARTICLE PROVIOES ONLY THE BRIEFEST SKETCH OF THE OEVELOPMENTS LEADING TO INTEGRATED COMPUTER/COMMUNICATIONS SYSTEMS. MESSAGE SWITCHING SYSTEMS AND TIME-SHARING ARE VIEWED AS THE MOST SIGNIFICANT MILESTONES. THE MOST INTERESTING PREDICTION DESCRIBES 'OISTRIBUTEO' COMPUTER SYSTEMS AS PROVIDING LOCAL STORAGE AT EACH TERMINAL SITE WHICH IS ADORESSABLE BY THE CENTRAL COMPUTER IN A MANNER SIMILAR TO ADORESSING ITS OWN INTERNAL STORAGE.

- ELMENDORF. C. H.. P. E. MUENCH. K. W. SUSSMAN, DATA COMMUNICATIONS NETWORK ARCHITECTURE. (AMERICAN TELEPHONE AND TELEGRAPH CO., NEW YORK). Interdisciplinary conference on multiple access computer networks, (Austin, TX, April 20-22, 1970), Apr 70, p 34-1--3-6, 3 REFS (ANNOTATION UNDER 3.0)
- FARBER, DAVIO J., DISTRIBUTED DATA BASES -- AN EXPLORATION, (CALIFORNIA, UNIV. OF, IRVINE, DEPT. OF INFORMATION AND COMPUTER SCIENCE. PROCEEDINGS OF THE 1975 SYMPOSIUM-COMPUTER NETWORKS: TRENDS AND APPLICATIONS, (GAITHERSBURG, MO, JUNE 18, 1975), INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YORK, 1975, 75CH0973-BC, P 25-27, 2 REFS

THIS PAPER IS CONCERNED WITH THE ISSUES WHICH NOTIVATE, ALLOW, AND SUPPORT THE IDEA OF A DISTRIBUTED DATA BASE. AFTE DEFINITIONS ARE GIVEN, RELATED ISSUES IN THE FOLLOWING SET OF AREAS ARE BRIEFLY EXPLORED: MANAGEMENT, COST. RELIABILITY, SECURITY, TRANSFERABILITY, AND FEASIBILITY. (ALSO UNDER S.9) AFTER

- FORGIE, JAMES W., SPEECH TRANSMISSION IN PACKET-SWITCHED STORE-AND-FORWARD NETWORKS. (MASSACHUSETTS INST. OF TECH., NGLE, JAMES W., SPEECH INANOMISION IN PACKETSMIICHED SIDKETANDFEUMWARD NEIMURKS, (MASSACHUSEIIS INSI, UF IECH, LEXINGTUN, LINCCLN LAGF). AFIPS CONFERENCE PROCEEDINGS, VOLUME 44, 1975. NATIONAL COMPUTER CONFERENCE, (ANAMEIM, CA, MAY 19-22, 1975). AFIPS PRESS, MONTVALE, NJ. 1975. (LC SS-44701). P 137-142, 17 REFS
- AFTER THE AUTHOR CHARACTERIZES A SPEECH DATA STREAM AND PACKET-SWITCHED NETWORKS, HE DISCUSSES THE PROBLEMS ASSOCIATED WITH SPEECH TRANSMISSION IN SUCH NETWORKS. HIS OVERALL DBSERVATIONS CONCERNING SPEECH DATA AND PACKET-SWITCHED NETWORKS ARE OPTIMISTIC.
- FRANK, HOWARO, COMPUTER NETWORKS: ART TO SCIENCE TO ART, (PRESENTED AT THE, PROCEEDINGS OF THE SYMPOSIUM ON LARGE-SCALE NETWORKS, EVANSTON, IL, APRIL 18-19, 1974), (NETWORK ANALYSIS CORP., GLEN COVE, NY), NETWORKS, VOL 5, ISSUE 1, JAN 75, P 7-32, 16 REFS

THERE ARE TOO FEW PLACES TO BEGIN TO LEARN ABOUT COMPUTER NETWORK DESIGN WITHOUT RAPIOLY GETTING IN OVER YOUR MEAD. THIS ARTICLE SIGNIFICANTLY ADDS TO THAT SMALL NUMBER. IT IMPARTS A REAL FEELING FOR THE DESIGN PROCESS AND ANALYTIC TECHNIQUES, WITHOUT SNOWING THE READER, AND WITHOUT OVERSIMPLIFYING THE PROBLEM. THE FLAVOR OF THE VARIOUS APPROACHES IS WELL EXPRESSED, BE THEY HIGHLY ANALYTIC (SCIENCE) OR RATHER ITERATIONS OF EDUCATEO GUESSES (ART). THE ARTICLE ITSELF IS HIGHLY READABLE, AND SHOULD BE READ BY ALL WHD WANT TO KNOW WHAT DESIGNING NETWORKS IS ALL ABOUT. (ALSO UNDER 2+1+0+ 3+2+2)

NANK, F., I. T. FRISCH, PLANNING COMPUTER-COMMUNICATION NETWORKS, (NETWORK ANALYSIS CORP., GLEN COVE, NY), Abranson, Norman, Franklin F, kud, computer-communication networks, Prentice-hall Inc., Englewood cliffs, nj, 1973, Computer Applications in Electrical Engineering Series, (tks102.s.a283), p 1-20, 20 Refs FRANK .

SOME OF THE FUNDAMENTAL TECHNIQUES OF NETWORK ANALYSIS AND THEIR APPLICATION TO COMPUTER-COMMUNICATIONS NETWORKS ARE PRESENTED. THE TECHNIQUES ARE USED TO OPTIMIZE NETWORKS WITH RESPECT TO COST, LAYOUT, ROUTING, THROUGHPUT, OELAYS, AND RELIABILITY. (ALSO UNDER 3-1.0-, 3-2-2)

FRISCH. IVAN T., HOWARD FRANK, COMPUTER COMMUNICATIONS--HOW WE GOT WHERE WE ARE, (NETWORK ANALYSIS CORP., GLEN COVE,

NY). AFIPS CCNFERENCE PROCEEDINGS, VOLUME 44, 1975, NATIONAL COMPUTER CONFERENCE, (ANAHEIN, CA, MAY 19-22, 1975), AFIPS PRESS, MONTVALE, NJ, 1975, (LC SS-44701), P 109-117, 30 REFS

THIS IS AN EXCELLENT ARTICLE WHICH TRACES THE EVOLUTION OF NETWORKING. FOR THE NOVICE TO COMPUTER NETWORKING THIS ARTICLE PRESENTS AN OVERVIEW FOR UNDERSTANDING THE "WHY" AND "HOW" OF NETWORKS DEVELOPMENT, HOWEVER, EVEN THE COMPUTER NETWORK EXPERT SHOULD FIND THIS ARTICLE ENJOYABLE AND INTERSTING.

GOURLEY, DAVID E., DATA COMMUNICATIONS: INITIAL PLANNING, (DATA TRANSMISSION CD., VIENNA, VA), DATAMATION, VOL 18, ISSUE 10, OCT 72, P 59-64

AN INTRODUCTION TO DATA COMMUNICATIONS PLANNING IS PRESENTED. ITEMS COVERED INCLUGE DEFINING WORKLOAD REDUIREMENTS, EVALUATING CONFIGURATIONS IN TERMS OF PROJECTED COST EFFECTIVENESS, CHANNEL BANDWIDTH CONSIDERATIONS, MODEMS, MULTIPLEXERS AND CONCENTRATORS, AND TERMINALS, EACH ITEM IS INTRODUCED IN ONE OR TWO PARAGRAPHS.

- EENBERGER, MARTIN, APPLICATIONS DEVELOPMENT AND USER SERVICES. REPORT OF WORKSHOP 11, (JOHNS HOPKINS UNIV.). GREENBERGER, MARTIN, JULIUS ARONOFSKY, JAMES L. MCKENNEY, WILLIAM F. MASSY, NETWORKS FOR RESEARCH AND EDUCATION: SMARING COMPUTER AND INFORMATION RESOURCES NATIONWIDE, MIT PRESS, CAMBRIOGE, MA. 1973, P 373-384, I REFS (ANNOTATION UNGER 1.1)
- HAMAKER, R. F., DISTRIBUTED COMPUTER SYSTEMS, (INTERNATIONAL BUSINESS MACHINES CORP., RESEARCH TRIANGLE PARK, NC, SYSTEMS DEVELOPMENT OIV.), TELECOMMUNICATIONS, VOL 4, ISSUE 3, MAR 70, P 25-30
 - A SHORT DISSERTATION ON THE PHILOSOPHY OF A DISTRIBUTED NETWORK AND SOME ASSOCIATED TECHNICAL CONSIDERATIONS ARE PRESENTED.
- HITTEL, L. A., SOME PROBLEMS IN DATA COMMUNICATIONS BETWEEN THE USER AND THE COMPUTER, (GENERAL ELECTRIC CO., PHOENIX, A 7 1

AZI). AFIPS PROCEEGINGS, 1966 FALL JOINT COMPUTER CONFERENCE, VOLUME 29, (SAN FRANCISCO, CA, NOVEMBER 7-10, 1966), SPARTAN BOOKS INC., WASMINGTON, OC, 1966, AFIPS CONFERENCE PROCEEGINGS, (LC SS-44701), P 39S-402

THIS SOMEWHAT DATED TUTDRIAL ON DATA COMMUNICATIONS SYSTEMS DESIGN AND IMPLEMENTATION NEVERTHELESS CONTAINS SOME INTERESTING INFORMATION. A SECTION ON "PROGRAMMING FOR DATA SET CONTROL" IS INFORMATIVE AND STILL CURRENT. AS ARE THE SECTIONS ON "INSTALLATION" AND "MAINTAINABILITY AND OPERATION CONSIDERATIONS." IT IS PERHAPS MOST INTERESTING TO NOTE THAT THE MAJORITY OF THE PROBLEMS IN DATA COMMUNICATIONS WHICH WERE RECOONIZED SIX YEARS AGD ARE STILL WITH US TODAY. (ALSO UNDER 3.2.2)

SPER, O. P., PRINCIPLES OF NETWORK DESIGN, (CONTROL DATA CORP., HINNÉAPOLIS, HN), proceedings of the 1974 Symposium, computer networks: trends and applications, (cathersburg, mo, may 23, 1974), institute of electrical and electronics engineers inc., New york, 1974, 14chob3-96, p 1–5

1.3 TUTORIAL

IN THIS ARTICLE JASPER PRESENTS AN ANALYSIS OF 8ASIC CONCEPTS AND PRINCIPLES OF COMPUTER NETWORKS. GENERAL DEFINITIONS ALONG WITH NETWORK OBJECTIVES AND FUNCTIONAL CAPABILITIES ARE DISCUSSED. COMPARISONS ARE MADE BETWEEN COMPUTER NETWORKS AND MINICOMPUTERS, AS WELL AS BETWEEN VARIOUS NETWORK CONFIGURATIONS. TUTORIAL IN NATURE, THIS PAPER PRESENTS AN INTERESTING AND HIGHLY READABLE OVERVIEW OF COMPUTER NETWORKS.

NHN, ROBERT E., RESDURCE-SHARING COMPUTER COMMUNICATIONS NETWORKS, (BOLT, BERANEK AND NEWMAN INC., CAMBRIDGE, MA), PROCEEDINGS OF THE IEEE, VOL 60, ISSUE 11, NOV 72, P I397-1407, 34 REFS

THIS PAPER PROVIDES A GOOD INTRODUCTION TO RESOURCE-SHARING COMPUTER COMMUNICATION NETWORKS COVERING SUCH AREAS AS: DISTRIBUTED VS, CONCENTRATED RESOURCES, COMPUTER-TO-COMPUTER COMMUNICATION, MESSAGE-SWITCHED COMMUNICATIONS, AND NETWO ACCESS .

KLEINROCK, LEONARD, COMPUTER NETWORKS, (CALIFORNIA, UNIV, DF, LOS ANGELES, DEPT, DF COMPUTER SCIENCE), CARDENAS, A. F., DR., L. PRESSLER, M. A. MARTIN, COMPUTER SCIENCE, WILEY-INTERSCIENCE, NEW YORK, 1972, (LC 71-169162), P 241-284, 40 REFS

THIS IS A VERY INTERESTING EXPOSITION EMPHASIZING MODELING OF COMPUTER NETWORKS. FOLLOVING A SKETCHY HISTORY OF NETWORKING AND OF THE ARPA NETWORK AN INTRODUCTION TO THE MODELING OF INDIVIOUAL TIME-SHARING SYSTEMS AS NETWORK NODES IS GIVEN. NETWORK BOLLAY AS A FONCTION OF THE MIL OF SHORT AND LONG MESSAGES IS DISCUSSED. AN INTERESTING PROPOSAL IS MADE THAT SIMULATION MODELS OF NETWORKS BE COMBINED WITH MODELS OF THEIR TIME-SHARING MODES TO REALISTICALLY SIMULATE DUREALL NETWORK BEHAVIOR. SOME INTRIGUING SUMMARY COMMENTS ABOUT THE NATURE OF THE MAN-NETWORK INTERFACE ARE INCLUDED. (ALSD UNDER 2.1.0)

KLEINROCK EINROCK, LEONARO, MODELS FOR COMPUTER NETWORKS, (CALIFORNIA, UNIV, DF, LOS ANGELES, DEPT, OF ENGINEERING), IEEE INTERNATIONAL CONFERENCE ON COMMUNICATIONS, VOLUME 2, JUN 69, P 21-9--21-16, 13 REFS

THIS INTRODUCTION TO DIFFERENT APPROACHES TO THE STUDY OF COMPUTER NETWORKS INCLUDES BOTH ANALYTIC AND SIMULATION METHODS, THE EXAMPLES GIVEN ARE ALL BASED ON THE ARPA NETWORK, THIS ARTICLE IS SLIGHTLY OUT OF DATE NOW, BUT IS ST VERY USEFUL AND INFORMATIVE AS A TUTORIAL INTRODUCTION. (ALSO UNDER 2+1+0)

EINROCK, LEONARG, SURVEY OF ANALYTICAL METHOOS IN OUEUEING NETWORKS, (CALIFORNIA, UNIV, DF, LOS ANGELES), Rustin, rangall, courant computer science symposium 3, computer networks, (november 30-december 1, 1970), prentice-hall Inc., englewood clifes, nj, 1972, prentice-hall series in automatic computation, (lc 79-39373), p 165-205, 11 refs

A SET OF ANALYTICAL METHODS FOR ESTIMATING THE PERFORMANCE OF A NETWORK IS DESCRIBED. WITH A GIVEN TOPOLOGY, ROUTING PROCEDURE. AND TRAFFIC MATRIX. THE LENGTH OF TIME IT TAKES A MESSAGE TO TRANSIT THE NETWORK IS ANALYZED. DPTIMIZATION TECHNIQUES RELATING CHANNEL CAPACITIES, MESSAGE DELAYS, AND COSTS TO A GIVEN TOPOLOGY AND ROUTING PROCEDURE ARE ALSO DISCUSSED. (ALSO UNDER 2.1.2)

KUO, FRANKLIN F., USER STANOAROS FCR COMPUTER NETWORKS, (HAWAII UNIV. OF, HONOLULU), Fourth data communications symposium, network structures in an evolving operational environment, (quebec city, (canada), (october 7-9, 1975), institute of electronics engineers inc., new york, 1975, IEEE 75-CH10001-7-OATA, P 2-16--2-17

THIS PAPER BRIEFLY ADDRESSES THE ISSUE OF STANDARDS FROM A NETWORK USER'S POINT OF VIEW ~ IN PARTICULAR, AN ARPANET USER'S POINT OF VIEW.

LARSSON, T., DATA COMMUNICATION IN SWEDEN-AND SOME ASPECTS OF THE SITUATION IN EUROPE, (SWEDISH TELECOMMUNICATIONS ADMINISTRATION, FARSTA), WINKLER, STARLEY, COMPUTER COMMUNICATIONS: IMPACTS AND IMPLEMENTATION, THE FIRST INTERNATIONAL CONFERENCE ON COMPUTER COMMUNICATION, (WASHINGTON, OC, OCTOBER 24-26, 1972), INTERNATIONAL CONFERENCES ON COMPUTER COMMUNICATION, 1972, ICCC

THIS ARTICLE SURVEYS THE DEVELOPMENT OF DATA COMMUNICATIONS FACLUITIES IN SWEDEN. THE AUTHOR IDENTIFIES A NEED FOR AN TREND TOWARDS REPLACING PRIVATE DATA COMMUNICATIONS NETWORKS WITH A DUBLIC NETWORK. SOME EFFORTS AT INTERNATIONAL CODERATION (WITHIN URADE) IN THE DATA COMMUNICATION FIELD ARE DESCRIBED, ALDNG WITH RESULTS OF A LARGE MARKET SURVEY. THE AUTHOR RECOGNIZES THAT EUROPE IS BENING AMERICA IN THE DEVELOPMENT OF DATA COMMUNICATIONS FACILITIES, BUT SINCE THEY HAVE THE AUVANTAGE OF BEING ABLE TO STOUT THE OEVELOPMENT IN THE U.S. THEY SHOLD BE ABLE TO MOVE RAPIOLY IN THIS AREA.

ICKY, FOBEFT W., COMMON-CARRIER OATA COMMUNICATION, (BELL TELEPHONE LABS, INC., HOL4OEL, NJ), Abramson, Norman, Franklin F, kud, computer-communication networks, prentice-hall inc., englemodo cliffs, nj, 1973, Computer Applications in Electpical Engineering Senies, (tksi02.sla203), p 142-196, 10 Refs LUCKY

THIS CHAPTER PROVIDES COMPREHENSIVE DISCUSSION OF COMMON DATA TRANSMISSION FACILITIES, AND HOW TO USE THESE for data transmission of a computer network. The services of the common carriers for data transmission. The basic techniques and courdent for transmission, and the idicsyncrasies and behavior of the network are described. (ALSO UNDER 3+2+1)

MARTIN, JAMES T., SYSTEMS ANALYSIS FOR OATA TRANSMISSION, INTERNATIONAL BUSINESS MACHINES CORP., SYSTEMS RESEARCH INST., PRENTICE-FALL INC., ENGLEWOOD CLIFFS, NJ, 1972, PRENTICE HALL SERIES IN AUTOMATIC COMPUTATION, (LC 75-37761), 909P

IN THIS COMPREHENSIVE GUIGE TO THE DESIGN OF DATA COMMUNICATIONS NETWORKS, MARTIN IS CONCERNED WITH THE CALCULATIONS AND SYSTEM DECISIONS NECESSARY WHEN DESIGNING DATA TRANSMISSION SYSTEMS. INCLUGE OARE DISCUSSIONS OF SYSTEM, USER, TERMINAL, NETWORK, AND SOFTWARE CONSIDERATIONS, AS WELL AS NUMEROUS FORMULAS, DESIGN TABLES, AND EXAMPLES OF THEIR APPLICATION TO PRACTICAL PROBLEMS. (ALSO UNDER 3.2.2)

MARTIN, J., TELECOMMUNICATIONS AND THE COMPUTER, INTERNATIONAL BUSINESS MACHINES CORP., NEW YORK, SYSTEMS RESEARCH H INST., PRENTICE-HALL INC., ENGLEWOOD CLIFFS, NJ, 1969, PRENTICE-HALL SERIES IN AUTOMATIC COMPUTATION, (LC 78-76030), 470P, 47 REFS

COMPUTER-COMMUNICATIONS CONCEPTS ARE PRESENTED IN AN EASY-TO-READ MANNER IN THIS POPULAR INTRODUCTION TO Ecommunications, some of the more important concepts introduced include: types of lines and tariffs, transmission media, modulation and cemodulation, pulse code modulation, multiplexing, widegand communications, and data error TREATMENT. (ALSO UNDER 3.2.0)

MERTEN, HANNES, COMMUNICATION #ITH DATA BASES. (SIEMENS AG. MUNICH, (WEST GERMANY)), The second international conference on computer communication. computer communication today and up to 1985, (stockholm, (sweden), august 12-14, 1974). International council of iccc, 1974, p 61-66

THIS PAPER IS INTENDED TO BE AN OVERVIEW OF THE REQUIREMENTS FOR TELEPROCESSING TOOLS SUCH AS TERMINALS, TRANSMISSION LINES AND DATA DUANTITIES TO BE TRANSMITTED. THE AUTHOR LISTS THESE REQUIREMENTS FOR TWO CLASSES OF DATA BASE USERS. PEOPLE AND COMPUTERS, WITH RESPECT TO THREE TYPES OF SYSTEMS - OPERATIONAL, MANAGEMENT AND INFORMATION RETRIEVAL

NEUMANN, A, J., A GUIDE TO NETWORKING TERMINGLOGY, NATIONAL BUREAU OF STANDARDS, WASHINGTON, DC, SYSTEMS AND SOFTWARE DIV., MAR 74, MBS TN-803, MSF AG=330, 29P

THERE SEEMS TO BE CONSIDERABLE CONFUSION WHENEVER COMMUNICATIONS SPECIALISTS AND COMPUTER ANALYSTS GET TOGETHER TO DISCUSS A COMMON TOPIC SUCH AS COMMUTENT NETWORKS. THEY OFTEN USE THE SAME WORDS, BUT DON'T MEAN THE SAME THING. THIS GUIDE TO NETWORKING TERMINOLOGY, REALLY A GLOSSARY ACCUMULATED FROM A NUMBER OF SOURCES WITH SCME ORIGINAL CONTRIBUTIONS. IS AN ATTEMPT TO COLLECT IN ONE PLACE THE COMMON TECHNICAL VOCABULARY NEEDED FOR COMPUTER NETWORKING. THE GLOSSARY IS NOT TOTALLY COMPLETE NOR ARE ALL THE DEFINITIONS PERFECT. BUT IT IS AN ADMIRABLE FIRST EFFORT AND A USEFUL COLLECTION. (ALSO UNDER 1.0)

NEUMANN, PETER G., SYSTEM DESIGN FOR COMPUTER NETWORKS, (STANFORD RESEARCH INST., MENLO PARK, CA), Abramson, Norman, Franklin F. Kud, Computer-Communication Networks, Prentice-Hall Inc., Englewood Computer Applications in Electrical Englikering Series, (trside.s.aze), p 29-bil b3 refs ENGLEWOOD CLIFFS, NJ. 1973.

THIS PAPER PRESENTS A CONCEPTUAL FRAMEWORK FOR AN UNDERSTANDING OF COMPUTER SYSTEMS AND COMPUTER NETWORKS. INDEPENDENT OF HAROWARE AND SOFTWARE IMPLEMENTATION OETAILS. EMPHASIS IS PLACED ON MULTIPROCESSOR COMPUTER SYSTEMS AND MULTISYSTEM COMPUTER NETWORKS. THE BENEFITS OF CAREFUL STRUCTURING OF BOTH SYSTEMS AND NETWORKS ARE PRESENTED. (ALSO UNDER 3.0)

1.3 TUTOR IAL

PEHRSON. DAVID L.. INTERFACING AND DATA CONCENTRATION. (CALIFORNIA, UNIV. OF. LIVERMORE). ABRANSON, DATO LET INCOMENTATION AND DATA GUICENTATION, CAELIONITATION NETWORKS, PRENTICE-HALL INC., ENGLEWOOD CLIFFS, NJ, 1973, COMPUTER APPLICATIONS IN ELECTRICAL ENGINEERING SERIES, (TKS102,S+A203), P 197-236, 7 REFS

GENERAL DISCUSSION OF COMMUNICATIONS INTERFACING AND DATA CONCENTRATION IS PRESENTED IN THIS PAPER. AREAS A GUMERAL GISCOSSIUM OF COMMUNICATIONS INTERFACING AND DATA CUNCENTRATION IS PRESENTED IN THIS PAPER. AREAS DISCUSSED INCLUDE: THE SERIAL COMMUNICATIONS PROBLEM, INTERFACE REQUIREMENTS, APPROACHES TO INTERFACE IMPLEMENTATION, CONCENTRATOR TYPES, CONCENTRATOR APPLICATIONS, CONCENTRATOR TRADEOFFS, PARALLEL COMMUNICATION INTERFACE, AND AS AN EXAMPLE, THE OCTOPUS SYSTEM. (ALSO UNDER 3.3.1. 3.2.3)

PETERSON, JACK J., SANDRA A. VEIT, CATALOG OF NETWORK FEATURES, MITRE CORP., WASHINGTON, DC, 15 MAR 71, MC WP-969S, AF F19628-71-C-0002, 47P, IO REFS

DEFINITIONS OF A NUMBER OF TERMS RELATED TO COMPUTER NETWORKING ARE GIVEN. THE ORDERING OF TERMS IS LOGICAL RATHER THAN ALPHABETICAL, AND EXAMPLES AND OPINIONS ARE GIVEN WITH EACH ITEM. THE CATALOG IS CERTAINLY USEFUL, BUT THE SET OF TERMS IS INCOMPLETE AND THE SUBSET CHOSEN CANNOT EASILY BE CHARACTERIZED. IT IS WORTHWHILE READING, HOWEVER, AS AN INTRODUCTION TO NETWORKING CONCEPTS.

KE, THOMAS N., JR., ROBERT P. BLANC, COMPUTER NETWORKING TECHNOLOGY -- A STATE OF THE ART REVIEW, (NATIONAL BUREAU OF STANDARDS, WASHINGTON, DC, INST. FOR COMPUTER SCIENCES AND TECHNOLOGY), COMPUTER, VOL 6, ISSUE B, AUG 73, P 12-19, 48 REPS PYKE. THOMAS N.. JR..

HIGHLIGHTS OF COMPUTER NETWORKING TECHNOLOGY, AS REPRESENTED IN EXISTING AND PLANNED NETWORKS, ARE REVIEWED. THIS ARTICLE DISCUSSES THE TECHNOLOGY THAT UNDERLIES THE FIELD OF COMPUTER NETWORKS BY DEFINING AND EXPLORING A SET OF TECHNOLOGICAL DIMENSIONS AND THEN ATTEMPTING TO PLACE INDIVIDUAL NETWORKS IN THIS MULTIDIMENSIONAL SPACE, AREAS COVERED ARE NETWORK COMPONENTS AND ARCHITECTURE INCLUDING CIRCUITS, CHANNELS, NDDES, NETWORK TOPOLOGY, COMPOSITION, NETWORK CCNTROL, INTERFACES AND NETWORK UTILIZATION. (ALSO UNDER 3.0)

SHAFRITZ, ARNOLD B., THE USE OF COMPUTERS IN MESSAGE SWITCHING NETWORKS, (AVERBACH CORP., PHILADELPHIA, PA, INFORMATION SCIENCES DIV.). STERCES DIAS OF THE 19TH NATIONAL CONFERENCE: ASSOCIATION FOR COMPUTING MACHINERY, (PHILADELPHIA, PA, AUGUST 25-27, 1964), ASSOCIATION FOR COMPUTING MACHINERY, NEW YORK, 1964, ACM P-64, (LC 64-25615), P N2,3-1--N2,3-6

THIS PAPER PROVIDES A USEFUL DESCRIPTION OF CONCEPTS IN MESSAGE SWITCHING COMPARING THEM TO AND DISTINGUISHING THEM FROM CIRCUIT SWITCHING. THE ADVANTAGES OF ONE APPROACH OVER THE OTHER ARE ALSO CLARIFIED.

STIMLER, SAUL, PLANNING A DATA COMMUNICATION SYSTEM. PART I: A BROAD OVERVIEW AND BASIC CONCEPTS. ISTIMLER ASSOCIATES. MODRESTOWN, NY). MODRENTOWN, NY). MODERN DATA, VOL 3. ISSUE 4. APR 70, P 134-135, I38-140, 2 REFS

THIS ARTICLE IS AN INTRODUCTION TO SOME OF THE MORE BASIC CONCEPTS OF DATA COMMUNICATIONS. COVERAGE IS BRIEF AND SUPERFICIAL

TEICHHOLTZ, NATHAN A., DISTRIBUTED COMPUTING: A MODULAR APPROACH TO COMPLEX SYSTEMS. (DIGITAL EOUIPMENT CORP., MAYNARD,

MA), COMPCON FALL *75. ELEVENTH IEEE COMPUTER SOCIETY CONFERENCE. HOW TO MAKE COMPUTERS EASIER TO USE. DIGEST OF PAPERS, IWASHINGTON. OC, SEPTEMBER 9-11, 1975), INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YORK, 1975, IEEE 75CH0988-6C, P 137-138

THIS EXTREMELY SHORT ARTICLE DOES LITTLE MORE THAN OBSERVE THAT DISTRIBUTED COMPUTING NETWORKS ARE BEGINNING TO PROVICE ATTRACTIVE ALTERNATIVES FOR THE IMPLEMENTATION OF COMPLEX SYSTEMS.

WASEND, MICHAEL J., COMMUNICATION CONTROL BY COMPUTER--AN INTRODUCTION, IGTE INFORMATION SYSTEMS INC., MUNTINGTON BEACH, CA. TEMPO COMPUTERS DIV.). TELECOMMUNICATIONS, VOL 6, ISSUE S, MAY 72, P 33-34, 36-38, 60, 62 TOWNSEND.

INKLER, STANLEY, OR., LEE DANNER, DATA SECURITY IN THE COMPUTER COMMUNICATION ENVIRONMENT, (INTERNATIONAL BUSINESS MACHINES CORP., GAITHERSBURG, MO, SYSTEM DEVELOPMENT DIV.), COMPUTER, VOL.7, ISSUE 2, FEB 74, P 23-31, 7 REFS (ANNOTATION UNDER S.6) WINKLER. STANLEY. OR ..

1.4 BIBLICGRAPHIES

ALSBERG, PETER A., GENEVA G. BELFORO, DEBORAH S. BROWN, STEVE R. BUNCH, JOHN O. DAY, ENRIQUE GRAPA, DAVID C. HEALY, R. Mullen, Paul L. Petronelli, an annotated bibliography to network data management and related literature, illi Univ. Gr. Urgana, Center For Advance computation, 1 Apr 75, IU-cac 149, dca 100-75-c-0021, (AD-AD14 232), 287P ILLINGIS.

OVER 400 OOCUMENTS RELATED TO NETWORK DATA MANAGEMENT AND RESOURCE SHARING ARE ANNOTATED. THE OOCUMENTS COVER TOPICS IN DATA MANAGEMENT, COMPUTER NETWORKS, COMMUNICATIONS, RESOURCE ALLOCATION, MEASUREMENT AND ANALYSIS, FRONT ENDS, SECURITY AND APPLICATION SUPPORT.

ANC, ROBERT P., IRA W. COTTON, THEMAS N. PYKE, JR., SHIRLEY W. WATKINS, ANNOTATED BIBLIDGRAPHY OF THE LITERATURE ON RESOURCE SHARING COMPUTER NETWORKS, NATIONAL BUREAU OF STANDARDS, WASHINGTON, DC. COMPUTER SYSTEMS SECTION, SEP 73, NBS SP-384, NSF AG-330, (LC 73-600268), 95P BLANC

THIS IS THE FIRST EDITION OF THE PRESENT BIBLIOGRAPHY. ALL REFERENCES FROM THIS BIBLIOGRAPHY HAVE BEEN INCLUDED IN THE VERSION YOU ARE NOW USING.

COMPUTER NETWORKING, A DDC BIBLIOGRAPHY, DEFENSE DOCUMENTATION CENTER, ALEXANORIA, VA. MAY 75, FEB 65-DEC 74, DOC TAS-75-9, (AD-ADID 200), 332P

THIS BIBLIDGRAPHY CONTAINS ABOUT 250 UNCLASSIFIED-UNLIMITED CITATIONS ON COMPUTER NETWORKING: DESIGN, PROGRAMMING, DATA PROCESSING, INTERFACING, AND APPLICATION OF NETWORKS IN THEIR PERFORMANCE AND USE. ALSO INCLUDED ARE REFERENCES TO DOCUMENTS CONTAINING INFORMATION ON THE CAPABILITY AND RELIABILITY OF THE ALDHA SYSTEM AND THE APPA COMPUTER NETWORK. THE CITATIONS WERE TAKEN FROM ENTRIES PROCESSED INTO THE DEFENSE DOCUMENTATION CENTER'S DATA BANK BETWEEN JANUARY 1965 AND 1975. MARCH

OUGGAN, MICHAEL A., BIBLIDGRAPHY 17. COMPUTER UTILITIES ~- SOCIAL AND POLICY IMPLICATIONS: A REFERENCE BIBLIDGRAPHY, (NEW HAMPSHIRE, UNIV. OF, OURHAM, WHITTEMORE SCHOOL OF BUSINESS AND ECONOMICS). COMPUTING REVIEWS, VOL 9, ISSUE 10, OCT 68, P 631-644

REPRESENTED IN THIS BIBLIDGRAPHY ARE REFERENCES THAT PERTAIN TO THE SOCIAL AND POLICY IMPLICATIONS OF THE COMPUTER AND/OR INFORMATION UTILITIES. EMPHASIS IS PLACED UPON HOW THESE UTILITIES WILL BE USED.

GROOMS, DAVID W., COMPUTER NETWORKS. A BIBLIOGRAPHY WITH ABSTRACTS, NATIONAL TECHNICAL INFORMATION SERVICE, SPRINGFIELD, Va. JUN 75, 1969-JUN 75, NTIS PS-75-824, 297P

THE CITATIONS (245, PRESENT RESEARCH ON ALL ASPECTS OF COMPUTER NETWORKS INCLUDING HAROWARE, SDFTWARE, DATA TRANSMISSION, AND APPLICABLE THEORY ON NETWORK DESIGN. SPECIFIC STUDIES ON THE ARPANET, THE ALDHA SYSTEM, AND GLOBNET ARE INCLUCED.

00, HELEN N., SHIRLEY W. WATKINS, IRA W. COTTON, ANNOTATEC BIBLIOGRAPHY OF THE LITERATURE ON RESOURCE SHARING COMPUTER NETWORKS, NATIONAL BUREAU OF STANDAROS, WASHINGTON, OC, INST. FOR COMPUTER SCIENCES AND TECHNOLOGY, 1976

THIS BIBLIDGRAPHY IS THE ONE THAT YOU ARE CURRENTLY READING. IT SUPERCEDES NOS SPECIAL PUBLICATION 304.

1.5 SCCIAL ISSUES

BIBLIDGRAPHY

BARAN, PAUL, COMMUNICATIONS, COMPUTERS AND PEOPLE, (PREPARED FOR, AFIPS FALL JOINT COMPUTER CONFERENCE, LAS VEGAS, NV, DECEMBER 2, 1965), RAND CORP., SANTA MONICA, CA, NOV 65, RC P-3235, (AD-624~431), 20P

ALTHOUGH THE PRIMARY INTEREST IN THIS EXPOSITION IS ON PROBABLE NEGATIVE SOCIETAL EFFECTS OF COMPUTERS AND COMMUNICATIONS, SOME ATTENTION IS GIVEN TO THE USE OF COMPUTERS AND COMPUTER-LIKE EQUIPMENT IN COMMUNICATIONS NETWORKS AND ON THE IMPACT OF LESS EXPENSIVE OIGITAL COMMUNICATIONS CIRCUITS ON THE USE OF COMPUTERS. MOST OF BARAN'S COMMENTS CONCERNING SOCIETAL IMPACT ARE INVOLVED WITH AGGREGATION EFFECTS BROUGHT ABOUT THROUGH THE USE OF COMPUTERS AND COMMUNICATIONS TOGETHER, HE PROPOSES A NUMBER OF PROTECTIVE MEASURES AND STATES THE MEEDEOR STILL MORE.

BUTLEP, R. E., INTERNATIONAL COOPERATION AND REGULATION FOUNDATIONS FOR DEVELOPMENT, (INTERNATIONAL TELECOMMUNICATIONS

JILEY, *, E,, INTERNATIONAL COUPERATION AND REGULATION FOUNDATIONS FOR DEVELOPMENT, (INTERNATIONAL TELECOMMUNICATIONS UNION, GENEVA, (SWITZERLAND)), THE SECOND INTERNATIONAL CONFERENCE ON COMPUTER COMMUNICATION, COMPUTEP COMMUNICATION TODAY AND UP TO 1985, (STOCKHOLM, (SWEDEN), AUGUST 12-14, 1974), INTERNATIONAL COUNCIL OF ICCC, 1974, P II-17

THIS PAPER PRESENTS A GENERAL OVERVIEW OF THE PRESENT SITUATION OF COMPUTER DEVELOPMENT, THE INTERGEPENGENCE OF TELECOMMUNICATION AND SOME PERSPECTIVES OF DATA COMMUNICATION DEVELOPMENT AND USER REQUIREMENTS. IT OUTLINES BASIC FUT CONSIDERATIONS WHICH NECESSITATE THE CONSIDERATION OF ECONOMIC AND SOCIAL IMPLICATIONS AND THE ATTITUTE OF GOVERNMENTS TELECCHMUNICATION AUTHORITIES. IT OUTLINES BASIC FUTURE

RELATIONSHIPS BETWEEN THE COMPUTER INDUSTRY AND THE TELECOMMUNICATIONS INTERESTS ARE DISCUSSED. (ALSO UNDER 5.4, 3.2.0)

ENSLOW, PHILIP H., JR., LT. COL., NETWORK VIABILITY: ECONOMIC, LEGAL, AND SOCIAL CONSIDERATIONS, (EXECUTIVE OFFICE OF THE PRESIDENT, WASHINGTON, OC, OFFICE OF TELECOMMUNICATIONS POLICY), COMPCON 73 - SEVENTH ANNUAL IEEE COMPUTER SOCIETY INTERNATIONAL CONFERENCE, DIGEST OF PAPERS, *COMPUTING NETWORKS FROM MINIS THROUGH MAXIS -- ARE THEY FOR REAL?', (SAN FRANCISCO, CA, FEBPUARY 27-20, MARCH I, 1973), INSTITUTE OF ELECTPICAL AND ELECTRONICE EDINEERS INC., NEW YORK, 1973, (LC 60-1628), P 7-10, 2 REFS (ANNOTATION UNDER 5.4)

NO, ROBERT M., ON THE SOCIAL ROLE OF COMPUTER COMMUNICATIONS, (MASSACHUSETTS INST. OF TECH., CAMBRIDGE), PROCEEDINGS OF THE IEEE, VOL 60, ISSUE 11, NOV 72, P 1249-1253, 4 REFS FANO,

PRESSURES THAT LEAD TO MORE WIDESPREAD USE OF COMPUTERS IN THE OPERATION OF SOCIETY ARE ILLUSTRATED. IT IS POINTED OUT THAT COMPUTER NETWORKS ARE NECESSARY TO HANDLE THE MASSIVE BOOKKEEPING PROBLEMS OF SOCIETY AND THE STORAGE OF KNOWLEDGE. A GOOD ANALOGY IS RAISED COMPARING THE IMPORTANCE OF ECONOMIC COMPUTER NETWORKS TO THE MASS PRODUCTION OF SERVICES WITH THE IMPORTANCE DE ECONOMIC TRANSPORTATION NETWORKS TO THE MASS PRODUCTION OF GOODS. THE DANGEP IS ALSO DISCUSSED OF PROVIDING COMPUTER ACCESS AND THE ASSOCIATED INFORMATION TO A RESTRICTED SEGMET OF SOCIETY WHICH CAN BE TRANSPORMED INTO POWER OVEP THE PEST OF SOCIETY. THE CONCLUSION IS THAT COMPUTERS MUST BE MADE TRULY ACCESSIBLE TO THE PUBLIC AT LARGE.

- GILLESPIE, ROBERT, UNIVERSITY RELATIONS WITH NETWORKS: FOPCING FUNCTIONS AND FORCES, (WASHINGTON, UNIV, OF, SEATTLE), GREENBERGER, MARTIN, JULIUS ARDNOFSKY, JAMES L. MCKENNEY, WILLIAM F. MASSY, NETWORKS FOR RESEARCH AND EDUCATION: SHARING COMPUTER AND INFORMATION RESOURCES NATIONNIDE, MIT PRESS, CAMBRIDGE, MA, 1973, P. 240-244 (ANNOTATION UNDER 3.1.0)
- HABERSTROH, CHAOWICK J., BEHAVIORAL IMPLICATIONS OF ORGANIZATION CHANGE, (WISCONSIN, UNIV. OF, MILWAUKEE), GREENBERGER, MARTIN, JULIUS ARONOFSKY, JAMES L. MCKENNEY, WILLIAM F. MASSY, NETWORKS FOR RESEARCH AND EOUCATION: SHARING COMPUTER AND INFORMATION RESOURCES NATIONNICE. MIT PRESS, CAMBRIDGE, MA, 1973, P. 212-221, 5 REFS

THE AUTHOR DISCUSSES THE ENVIRONMENTAL ASPECTS OF A LARGE-SCALE NATIONAL COMPUTER NETWORK THAT WILL POSE MAIZATIONAL PROBLEMS FOR MEMBER UNIVERSITIES AND OTHER RESEARCH ORGANIZATIONS, CRGANIZATIONAL PI (ALSO UNDER 1.6)

JEFFERY, LAWRENCE R., SOFTWARE: THE GASH IN COMPUTER--COMMUNICATIONS, (MITPE CORP., BEDFORD, MA). IEEE 1974 INITIONAL TELECOMMUNICATIONS CONFERENCE, (SAN DIEGO, CA, DECEMBER 2-4, 1974). INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YORK, 1974. IEEE P-74CH0902-7-CSCB, (ILC S7-20724). P 476-481. 20 REFS

THIS ESSAY CONTAINS LITTLE TECHNICAL INFORMATION CONCERNING SOFTWARE: IN FACT, IT CONTAINS LITTLE TECHNICAL INFORMATION AND LITTLE INFORMATION CONCERNING SOFTWARE. IT IS, HOUVEVER, FAR FANGING IN ITS DISCUSSION OF SOME OESIRED CAPABILITIES FOR COMPUTER COMMUNICATIONS SYSTEMS, COMPLETE WITH SAMPLE MAN-MACHINE DIALOGUES. (ALSO UNDER 3.S.O)

JOHNSON, LELAND L., SOME IMPLICATIONS OF NEW COMMUNICATIONS TECHNOLOGIES FOR NATIONAL SECURITY IN THE 19705, RAND CORP., SANTA MONICA, CA, SEP 67, RC P-3639, (AD-658 424), 24P, 14 REFS (ANNOTATION UNDER 5.4)

MBEL, OIETER, PLANNING OF DATA COMMUNICATIONS NETWORKS--ECONOMIC, TECHNOLOGICAL ANO INSTITUTIONAL ISSUES, (ORGANISATION FOR ECONOMIC COOPERATION AND OEVELOPMENT, PARIS, (FRANCE)), WINKLER, STANLEY, COMPUTER COMMUNICATIONS: IMPACTS AND IMPLMENTATION, THE FIRST INTERNATIONAL COMFERENCE ON COMPUTER COMMUNICATION, (WASHINGTON, OC, OCTOBER 24-26, 1972), INTERNATIONAL CONFERENCES ON COMPUTER COMMUNICATION, 1972, ICCC 72-CHO-690-BC, NSF GJ-33239, P 251-259, I9 REFS (ANOTATION UNDER S.4) KIMBEL

- LICKLIDER. J. C. R., POTENTIAL OF NETWORKING FOR RESEARCH AND EDUCATION, (MASSACHUSETTS INST. OF TECH., CAMBRIDGE), GREENBERGEN, MARTIN, JULIUS ARONDFSKY, JAMES L. MCKENNEY, WILLIAM F. MASSY, NETWORKS FOR RESEARCH AND EDUCATION: SHARING CUMPUTER AND INFORMATION RESOURCES NATIONNIDE, MIT PRESS, CAMBRIDGE, MA. 1973, P. 44-50, I REFS (ANNOTATION UNDER I.I)
- MAISEL, HERBEPT, RESPONSIBILITY FOR THE HUMANISTIC USE OF THE INFORMATION REVOLUTION: WHERE WILL THE BATTLE BE FOUGHT?, (GEORGETORN UNIV, WASHINGTON, CC), WINKLER, STANLEY, COMPUTER COMMUNICATIONS: IMPACTS AND IMPLEMENTATION, THE FIRST INTERNATIONAL CONFERENCE ON COMPUTER COMMUNICATION, (WASHINGTON, DC, OCTOBER 24-26, 1972), INTERNATIONAL CONFERENCES ON COMPUTER COMMUNICATION, 1972, ICCC 72-CHO-690-BC, NSF GJ-33239, P 47-48, B REFS

THIS ESSAY IGENTIFIES SOME NON-OBVIOUS PLACES WHERE THE REAL 'BATTLES' WILL BE FOUGHT REGARGING THE WAY IN WHICH INFORMATION SYSTEMS (PARTICULARLY COMPUTER-COMMUNICATIONS BASED SYSTEMS) WILL BE USED AND THEIR IMPACT ON SOCIETY, SOME OF THESE ARE THE CONGRESS, THE EXECUTIVE OFFICE OF THE PRESIDENT, EDUCATIONAL INSTITUTIONS, AND WITHIN THE STRUCTURES OF MANY PPIVATE ORGANIZATIONS,

EOWIN 8., DR., DEMOCRACY AND INFORMATION PROCESSING, (STANFORD UNIV., CA, CENTER FOR ADVANCED STUDY IN THE PARKER . BEHAVIORAL SCIENCES), EDUCOM BULLETIN, VOL 5, ISSUE 4, FALL 70, P 2-6

THE AUTHOR ADDRESSES THE MAJOR COMPONENTS OF A PUBLIC INFORMATION UTILITY SYSTEM AND DISCUSSES A PLAUSIBLE TH BY WHICH OUR PRESENT MEDIA SYSTEM COULD EVOLVE TO SUCH A SYSTEM. HE ENUMERATES THE POSITIVE SOCIAL CONSEQUENCES THE NEW MEDIUM AND CONCLUDES BY BRIEFLY CONSIDERING SOME OF THE RELEVANT ECONOMIC FACTORS. PATH BY

RCCKOFF. MAXINE L., HEALTH CARE COMMUNICATION SYSTEMS. (HEALTH SERVICES AND MENTAL HEALTH ADMINISTRATION, ROCKVILLE, мо≱.

MOD, WINKLER, STANLEY, COMPUTER COMMUNICATIONS: IMPACTS AND IMPLEMENTATION. THE FIRST INTERNATIONAL CONFERENCE ON COMPUTER COMMUNICATION, (WASHINGTON, OC, OCTOBER 24-26, 1972), INTERNATIONAL CONFERENCES ON COMPUTER COMMUNICATION, 1972, ICCC 72-CHO-690-8C, NSF GJ-33239, P 46S-467 (ANNOTATION UNDER 4.2.1)

SAMUELSCN, KJELL, COMMUNICATING WITHIN A WORLO SYSTEM, (STOCKHOLM, UNIV, OF, (SWEDEN), ROYAL INST. OF TECH., STOCKHOLM, (SWEDEN)).

(SWEUDEN), The SECOND INTERNATIONAL CONFERENCE ON COMPUTER COMMUNICATION, COMPUTER COMMUNICATION TODAY AND UP TO 1985, (STOCKHOLM, (SWEDEN), AUGUST 12-14, 1974), INTERNATIONAL COUNCIL OF ICCC, 1974, P 361-366, S REFS (ANNOTATION UNDER I.6)

THCMPSON, GUROON 8., THREE CHARACTERIZATIONS OF COMMUNICATIONS REVOLUTIONS, (BELL-NORTHERN RESEARCH, OTTAWA, (CANADA)), WINKLER, STANLEY, COMPUTER COMMUNICATIONS: IMPACTS AND IMPLEMENTATION. THE FIRST INTERNATIONAL CONFERENCE ON COMPUTER COMMUNICATION, (WASHINGTON, OC, OCTOBER 24-26, IS72), INTERNATIONAL CONFERENCES ON COMPUTER COMMUNICATION, 1972, ICCC 72-CHD-690-8C, NSF GJ-33239, P 36-37

THIS ESSAY OEALS WITH THE PROBLEM OF DEVELOPING TOOLS FOR THE ASSESSMENT OF THE IMPACT OF COMMUNICATIONS SYSTEMS ON SOCIETY AS A WHOLE. THE THREE CHARACTERIZATIONS DISCUSSED ARE (1) THE INCREASE IN THE EASE WITH WHICH STORED HUMAN EXPERIENCE CAN BE ACCESSED; (2) THE INCREASE IN THE SIZE OF THE COMMON INFORMATION SPACE SHARED BY THE COMMUNICATIS; AND (3) THE INCREASE IN THE EASE OF DISCOVERY AND GEVELOPMENT OF NASCENT CONSENSUS. TESTS OF SIGNIFICANCE COPRESPONDING TO

1.5 SOCIAL ISSUES

THE THREE CHARACTER IZATIONS ARE GIVEN.

1.6 FORECASTS

- A TRANS-CANADA COMPUTER COMMUNICATIONS NETWORK. PHASE I OF A MAJDR PROGRAM ON COMPUTERS, SCIENCE COUNCIL OF CANADA, AUG 71, SCC R-13, SCC 5522-1971-13, 41P (ANNOTATION UNDER 3.1.0)
- ALDEN. R. M., THE WIRED CITY: THE ROLE OF AN INDEPENDENT TELEPHONE COMPANY, (UNITED TELECOMMUNICATIONS INC., KANSAS MO), CITY.

CITY, MUJ. WINKLER, STANLEY, COMPUTER COMMUNICATIONS: IMPACTS AND IMPLEMENTATION, THE FIRST INTERNATIONAL CONFERENCE ON COMPUTER COMMUNICATION, (WASHINGTON, OC, OCTOBER 24-26, 1972), INTERNATIONAL CONFERENCES ON COMPUTER COMMUNICATION, 1972, ICCC 72-CMO-590-BC, NSF GJ-33239, P 417-419 (ANNOTATION UNDER 4.3)

- AUFENKAPP, O. DON, NSP ACTIVITIES IN NETWORKING FOR SCIENCE. (NATIONAL SCIENCE FOUNDATION, WASHINGTON, OC); GREENBERGER, MARTIN, JULIUS ARONOFSKY, JAMES L, MCKENNEY, WILLIAM F, MASSY, NETWORKS FOR RESEARCH AND EDUCATION: SHARING COMPUTER AND INFORMATION RESOURCES NATIONNIDE, MIT PRESS, CAMBRIDGE, MA, 1973, P 30-43, 2 REFS (ANNOTATION UNDER 1.1)
- EALMAN, RIEKO, THE FUTURE OF COMPUTER COMMUNICATION--A FACILITY FOR FEW OR A UTILITY FOR MANY?, (SHELL INTERNATIONALE PETROLEUM, MAQUE, (NETHERLANDS)), THE SECONO INTERNATIONAL COMPUTER COMMUNICATION, COMPUTER COMMUNICATION TOOAY AND UP TO 1985, (STOCKHOLM, (SWEDEN), AUGUST 12-14, 1974), INTERNATIONAL COUNCIL OF ICCC, 1974, P 383-388

AFTER DISCUSSING VARIOUS CURRENT AND PROJECTED APPLICATIONS FOR COMPUTER COMMUNICATIONS, THE AUTHOR MOVES INTO A DISCUSSION OF NETWORKING IN BOTH THE PUBLIC AND PRIVATE SECTORS IN EUROPE. SEVERAL PROBLEM AREAS ARE IDENTIFIED, AND IN CONCLUSION III IS STATED THAT EUROPEAN PTT ADMINISTRATIONS COULD ONLY GAIN FROM A REMOVAL OF BARRIERS AND AN ENERGETIC STIMULATION OF THE UTILITY CONCEPT FOR COMPUTER COMMUNICATIONS. STINULATION OF TH

- YANT, SUSAN, PAN G. YATRAKIS, AN ECONDMIC MODEL OF TWO-WAY BROADBAND NETWORKS, (GTE LABS, INC., WALTHAM, MA), COMPOIN 73 SEVENTH ANNUAL IEEE COMPUTER SOCIETY INTERNATIONAL CONDERENCE. DIGEST OF PAPERS, 'COMPUTING NETWORKS FROM MINIS TRADUGH MAXIS -- ARE THEY FOR REA.?', (SAN FRANCISCO, CA, FEBRUARY 27-28, MARCH I, 1973), INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS INC., NEW YORK, 1973, (LC 68-1628), P 89-92 BRYANT. (ANNOTATION UNDER 2.1.4)
- COVIELLO, GINO J., ROY O. ROSNER, COST CONSIDERATIONS FOR A LARGE DATA NETWORK, (DEFENSE COMMUNICATIONS AGENCY,

RESTON, VA), The second international conference on computer communication. Computer communication Today and up to 1985, (stockholm, (sweden), august 12-14, 1974), international council of ICCC, 1974, p 289-294, 6 refs

THE IO-YEAR COST SENSITIVITY, AS A FUNCTION OF CHANNEL BIT RATE, FOR A WIDE GEOGRAPHICALLY DISPERSED MIX OF VARIABLE SIZE DATA CUSTOMERS IS OEVELOPED BASED ON CURRENT AND PROJECTED COSTS FOR LEASED TRANSMISSION SERVICE AND PURCHASED PACKET SWITCHING PROCESSORS. TO ACHIEVE THIS OBJECTIVE, A MODEL FOR THE PROJECTION OF LEASED TRANSMISSION COSTS INTO THE FUTURE IS PROPOSED. RESULTS OF THE STUDY INDICATE THAT IN AN EFFICIENTLY DESIGNED DATA NETWORK, THE SENSITIVITY OF COST WITH CHANNEL BIT RATE IS VERY MINIMAL OVER A SIGNIFICANTLY BROAD RANGE OF INTEREST, AND FURTHER INDICATES THAT THIS RESULT IS NOT EXPECTED TO CHANNE WITH THE. HENCE, ONCE CAN PROCEDE WITH CONFIDENCE TOWARDS A SYSTEM DESIGN THAT IS EXPECTED TO REMAIN COST-EFFECTIVE FOR A LONG THE SPAN. THIS IS AN INTERESTING APPLICATION OF TECHNOLOGICAL FORECASTING TO DATA COMMUNICATIONS. THE RESULTS CAN BE NO BETTER THAN THE DASIC ASSUMPTIONS, BUT SUCH AN APPROACH IS CLEARLY PREFERABLE TO PURE GUESSWORK.

(ALSO UNDER 5.3)

- CUADRA, CARLOS A., COMPUTER TECHNOLOGY AND LIBRARIES OF THE FUTURE, (SYSTEM DEVELOPMENT CORP., SANTA MONICA, CA), WINKLER, STANLEY, COMPUTER COMMUNICATIONS: IMPACTS AND IMPLEMENTATION, THE FIRST INTERNATIONAL CONFERENCE ON COMPUTER COMMUNICATION, (MASHINGTON, OC, OCTOBER 24-26, 1972), INTERNATIONAL CONFERENCES ON COMPUTER COMMUNICATION, 1972, ICCC 72-CHO-690-BC, NSF GJ-33239, P 472-476 (ANNOTATION VORE 4.2.2)
- OAVIES. O. W., TELEPROCESSING AND OATA COMMUNICATION OF THE FUTURE, (NATIONAL PHYSICAL LAB., TEODINGTON, (ENGLAND), DIV. OF COMPUTER SCIENCE), ELECTRONICS AND POWER, VOL 17, DEC 71, P 464-467
- THE NEED FOR SPECIAL NETWORKS FOR DATA COMMUNICATION IS DEVELOPED, AND PACKET-SWITCHING IS SUGGESTED AS A PARTICULARLY
- DAY, LAWRENCE H., THE FUTURE OF COMPUTER AND COMMUNICATIONS SERVICES. (BELL CANADA, MONTREAL). AFIPS CONFERENCE PROCEEDINGS. VOLUME 42, 1973. NATIONAL COMPUTER CONFERENCE AND EXPOSITION. (NEW YORK, NY, JUNE 4-8, 1973). AFIPS PRESS, MONTVALE.NJ, 1973. AFIPS CONFERENCE PROCEEDINOS, (LC 55-4407)). P 723-734. 19 REFS

THIS PAPER EXAMINES A NUMBER OF STUDIES ON THE FUTURE OF THE COMPUTER AND COMMUNICATIONS INDUSTRIES. AFTER A GENERAL INTRODUCTION TO FORECASTING AND DELPHI TECHNIDUES THE FOLLOWING APPLICATIONS OF COMPUTER AND COMMUNICATIONS SERVICES ARE DISCUSSED: COMPUTER-ASSISTED INSTRUCTION, USE OF COMPUTER COMMUNICATIONS CAPABILITIES AS A SUBSTITUTE SOME FOR INTER-URBAN TRAVEL, AND USE OF COMPUTER BASED SERVICES IN THE HOME. (ALSO UNDER 4.9)

- NN, O. A., A. J. LIPINSKI. ECONOMIC CONSIDERATIONS IN COMPUTER-COMMUNICATION SYSTEMS, (STANFORO UNIV., CA, OEPT. OF ENGINGERING-ECONOMIC SYSTEMS, INSTITUTE FOR THE FUTURE, MENLO PARK, CA), ABRAMSON, NORMAN, FRANKLIN F. KUO, COMPUTER-COMMUNICATION NETWORKS, PRENTICE-HALL INC., ENGLEWOOD CLIFFS, NJ, 1973, COMPUTER APPLICATIONS IN ELECTRICAL ENGINEERING SERIES, (TKS102.5.4283), P 371-422, 30 REFS OUNN. O. (ANNOTATION UNDER 5.3)
- , RICHARO, LEGAL IMPLICATIONS OF A CASHLESS SOCIETY, (MORRISON, FORSTER, HOLLOWAY, CLINTON AND CLARK, SAN FRANCISCO, CA), CCMPCON 73 - SEVENTH ANNUAL IEEE COMPUTER SOCIETY INTERNATIONAL CONFERENCE. DIGEST OF PAPERS, 'COMPUTING NETWORKS FROM MINIS THROUGH MAXIS -- ARE THEY FOR REA_?', (SAN FRANCISCO, CA, FEBRUARY 27-28, MARCH I, 1973), INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS INC., NEW YORK, 1973, (LC 68-1628), P IDI-IO4, 18 REFS (ANNOTATION UNDER S.4)
- HABERSTROH, CHAOWICK J., BEHAVIORAL IMPLICATIONS OF ORGANIZATION CHANGE, (WISCONSIN, UNIV. OF, MILWAUKEE). GREENDERGER, MARTIN, JULIUS ARONOFSKY, JAMES L. MCKENNEY, WILLIAM F. MASSY, NETWORKS FOR RESEARCH AND EDUCATION: SHARING COMPUTER AND INFORMATICN RESOURCES NATIONNIDE, MIT PRESS, CAMBRIDGE, MA, 1973, P 212-221, 5 REFS (ANNOTATION UNDER 1.5)
- HAMILTON, WALTER C.OR., LARGE-SCALE NUMERICAL ANALYSIS AS APPLIED TO THE BASIC SCIENCES, (BROOKHAVEN NATIONAL LAB., UPTON . NY) . UPION, NY). Greenberger, Martin, Julius Aronofsky, James L. McKenney, William F. Massy, networks for research and education: sharing Computer and information resources nationwide, mit press, Cambridge, Ma, 1973, p.96–98 (Annotation Under 1.1)
- HAMMER, CARL, CCMPUTER COMMUNICATIONS: THE FUTURE, (SPERRY RAND CORP., WASHINGTON, OC, UNIVAC OIV.), WINKLER, STANLEY, COMPUTER COMMUNICATIONS: IMPACTS AND IMPLEMENTATION. THE FIRST INTERNATIONAL CONFERENCE ON COMPUTER CCMMUNICATION, (WASHINGTON, OC, OCTOBER 24-26, 1972), INTERNATIONAL CONFERENCES ON COMPUTER COMMUNICATION, 1972, ICCC 72-CH0-65C-BC, NSF 6J-33239, P 31-35, B REFS
- A FORECAST OF THE DIRECTION WHICH DEVELOPMENTS IN THE COMPUTER COMMUNICATIONS AREA WILL BE TAKING IS PRESENTED. 8ASED ON THE REALIZATION "THAT TOMORROW'S TECHNOLOGY IS FOUNDED UPON THAT OF TODAY'. BRIEF FORECASTS ARE MADE IN EACH OF THREE AREAS! HARDWARE, SOFTWARE, AND THE SUPPORTING DISCIPLINES.
- RVEY, SAMUEL 8., THE CONCEPT OF THE SINGER WORLOWIDE COMPUTER NETWORK. (SINGER CO., NEW YORK). COMPOIN 73 SEVENTH ANNUAL IEEE COMPUTER SOCIETY INTERNATIONAL CONDERENCE. DIGEST OF PAPERS. "COMPUTING NETWORKS FROM MINIS THROUGH MAXIS -- ARE THEY FOR REAL?", (SAN FRANCISCO, CA. FEBRUARY 27-28, MARCH I. 1973), INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS INC., NEW YORK. 1973, (LC 68-1628), P 187-188

1.6 FORECASTS

IN AN EFFORT TO DESCRIBE THE BASIC FACTORS WHICH INFLUENCE SINGER'S SYSTEMS PLANS, SEVERAL TRENDS WHICH SINGER FEELS ARE EVOLVING RAPIOLY IN THE COMPUTER INDUSTRY ARE IDENTIFIED: THE END OF SERIAL BATCH PROCESSING, BETTER ECUCATION DF END USERS, AND EXISTENCE OF NON-CENTRALIZED INFORMATION NETWORKS, DEVELDPMENT OF INTELLIGENT TERMINA IMPROVED COMMUNICATION SYSTEMS AND EXPANSION OF APPLICATION AREAS, THESE TRENDS ARE DISCUSSED ONLY AS THEY APPLY TERMINALS. TD SINGER'S DPERATIONS. (ALSD UNDER 3.1.0)

- KAPRIELIAN, ZOHRAB A., THE POLITICS OF CDOPERATION. (SOUTHERN CALIFORNIA, UNIV. DF. LDS ANGELES), GREENBERGER, MARTIN, JULIUS APONOFSKY, JAMES L. MCKENNEY, WILLIAM F. MASSY, NETWORKS FOR RESEARCH AND EDUCATION: SHARING COMPUTER AND INFORMATION RESOURCES NATIONWIDE, MIT PRESS, CAMBRIDGE, MA, 1973, P 207-211 (ANNOTATION UNDER 3.1.0)
- ICKLIDER, J. C. R., POTENTIAL OF NETWORKING FOR RESEARCH AND EDUCATION, (MASSACHUSETTS INST. OF TECH., CAMBRIDGE), Greenberger, Martin, Julius Aronofsky, James L. McKenney, William F. Massy. Networks for Research and Education: Sharing Computer and Information resources nationwide, Mit Press. Cambridge, Ma. 1973, P. 44-50, 1 Refs LICKLIDER, (ANNOTATION UNDER 1.1)
- R. K. LAY. THE WIRED CITY: SERVICES FOR HOME DELIVERY VIA INTERACTIVE CABLE TV. (MITRE CDRP.. MASON: W. F., USUN, W.F., N. K. LAY, THE WINED CITT: SERVICES FOR TORE DELIVENT VIA INTERACTIVE CABLE TV. (MITHE CONF., WASHINGTON, DC), WIINKLER, STARLEY, COMPUTER COMMUNICATIONS: IMPACTS AND IMPLEMENTATION, THE FIRST INTERNATIONAL CONFERENCE ON COMPUTER COMMUNICATION, (#ASHINGTON, DC, OCTOBER 24-26, 1972), INTERNATIONAL CONFERENCES ON COMPUTER COMMUNICATION, 1972, ICCC 72-CHC-090-BC, NSF GJ-33239, P 420-424 (ANOTATION UNDER 4-3)
- LMER, AUGUST, SUMMARY OF THE EXISTING DATA COMMUNICATIONS SERVICES IN WESTERN EUROPE AND TENTATIVE PORECAST OF NEW SERVICES FOR THE NEXT DECADE, (BUNDESMINISTERIUM FUER DAS POST UND FERNMELDEWESEN, (WEST GERMANY)), WINKLER, STANLEY, COMPUTER COMMUNICATIONS: IMPACTS AND IMPLEMENTATION, THE FIRST INTERNATIONAL COMFERENCE ON COMPUTER COMMUNICATION, (WASHINGTON, DC, DOCTOBER 24-26, 1972), INTERNATIONAL CONFERENCES DN COMPUTER COMMUNICATION, 1972, ICCC 72-CH0-690-8C, NSF GJ-33239, P 260-266 CHLMER,

DATA SETS, TELEX STATIONS, AND SIMILAR FACILITIES ARE COUNTED FOR SOME EUROPEAN COUNTRIES AND SOME PROJECTIONS ARE De for growth over t⊨e next ten years. A few projected new services are also discussed. (ALSO UNDER 3,2+1)

PARTICIPATING DEMONSTRATIONS OF A MULTI-PURPOSE NETWORK LINKING DISSIMILAR COMPUTERS AND TERMINALS, WINKLER, STANLEY, COMPUTER COMMUNICATIONS: IMPACTS AND IMPLEMENTATION. THE FIRST INTERNATIONAL CONFERENCE ON COMPUTER COMMUNICATION, (WASHINGTON, DC, OCTOBER 24-26, 1972), INTERNATIONAL CONFERENCES ON COMPUTER COMMUNICATION, 1972, ICCC 72-CHC-590-BC, NSF GJ-33239, P 41-42

SOME OF THE DEMONSTRATIONS PROVIDED OURING THE ARPA NETWORK SPECIAL PROJECT AT THE INTERNATIONAL CONFERENCE ON COMPUTER COMMUNICATIONS HELD IN WASHINGTON, O.C., ARE BRIEFLY DESCRIBED. A NETWORK MAP COMPLETE AS OF AUGUST 1972 IS INCLUDED,

ROBERTS, LAWRENCE, OR., ARPA NETWORK IMPLICATIONS, (AQVANCED RESEARCH PRDJECTS AGENCY, ARLINGTON, VA), ECUCOM BULLETIN, VOL 6, ISSUE 3, FALL 71, P 4-8

THE CHARACTERISTICS OF COMPUTER-TO-COMPUTER COMMUNICATIONS ARE ENUMERATED. THE AUTHOR LODKS AHEAD AT THE CHANGES IN COMPUTER SYSTEM DPGANIZATION ASSUMING BROAD AVAILABILITY DF A DATA COMMUNICATIONS SERVICE SIMILAR TO THE ARPANET SYSTEM. HE DISCUSSES THREE SIGNIFICANT APPLICATIONS DF NETWORKS WITH DATA COMMUNICATIONS SERVICE: HARDWARE SHARING; SOFTWARE SHARING; AND DATA BASE SHARING. (ALSD UNDER 4.0)

ROCKOFF, MAXINE L., HEALTH CARE COMMUNICATION SYSTEMS, (HEALTH SERVICES AND MENTAL HEALTH ADMINISTRATION, ROCKVILLE,

MD), WINLER, STANLEY, COMPUTER COMMUNICATIONS: IMPACTS AND IMPLEMENTATION, THE FIRST INTERNATIONAL CONFERENCE ON COMPUTER COMMUNICATION, (WASHINGTON, OC, OCTOBER 24-26, 1972), INTERNATIONAL COMFERENCES ON COMPUTER COMMUNICATION, 1972, ICCC 72-CHO-690-BC, NSF GJ-33239, P 465-467 (ANNOTATION UNDER 4,2+1)

SAMUELSON, KJELL, COMMUNICATING WITHIN A WORLD SYSTEM. (STOCKHOLM, UNIV, OF, (SWEDEN), ROYAL INST, OF TECH,, STOCKHOLM, (SwEGEN), THE SECOND INTERNATIONAL CONFERENCE ON COMPUTER COMMUNICATION, COMPUTER COMMUNICATION TODAY AND UP TO 1985, (STOCKHOLM, (SwEGEN), AUGUST 12-14, 1974), INTERNATIONAL COUNCIL OF ICCC, 1974, P 361-366, S REFS

ASSERTING THAT INTERNATIONAL COMPUTER COMMUNICATION IS FEASIBLE TODAY ON A WORLDWIDE BASIS, THE AUTHOR GOES ON TO STATE THAT CONSTRAINTS AGAINST PROGRESS ARE SOCIDECONOMICAL IN NATURE, RATHER THAN PURELY TECHNICAL. THE IMPLICATIONS AND OFPORTUNITIES FOR SEVERAL GLOBAL IMPROVEMENTS BY MEANS OF COMPUTER COMMUNICATIONS ARE ANALYZED FOR A NUMBER OF ACTUALLY EXISTING SITUATIONS, ONE REAL-LIFE EXAMPLE IS REPORTED WHICH INVOLVES A NETWORK FOR A DOZEN COUNTRIES IN SOUTH-EAST ASIA AND THE PACIFIC. (ALSO UNDER 1.5, 1.1)

THOMPSON, JCHN P., THE WIRED CITY: COMMERCIAL SERVICES TO BE PROVIDED BY BROADBAND TELECOMMUNICATIONS SYSTEMS. IOMPSON, JCHN P., THE WIRED CITY: COMMERCIAL SERVICES TO BE PROVIDED BY BROADBAND TELECOMMUNICATIONS SYSTEMS. (LITTLE (ATTHUR 0.) ING., CAMPDIGE, M.). WINKLER, STARLEY, COMPUTER COMMUNICATIONS: IMPACTS AND IMPLEMENTATION. THE FIRST INTERNATIONAL CONFERENCE ON COMPUTER COMMUNICATION, (WASHINGTON, OC, OCTOBER 24-26, 1972), INTERNATIONAL CONFERENCES ON COMPUTER COMMUNICATION, 1972, ICCC 72-CHC-690-8G, NSF GJ-33239, P 425-428

WALKER, PHILIP M., STUART L. MATHISON, REGULATORY POLICY AND FUTURE DATA TRANSMISSION SERVICES. (TELENET LLEER, PHILIP M., SIDARI L. MATHISON, REGULATORT POLICET AND FOTURE DATA TRANSMISSION SERVICES. TIELERET COMMUNICATIONS CORP., WALTHAM, MA), ABRAMSON, NORMAN, FRANKLIN F. KUO, COMPUTER-COMMUNICATION NETWORKS, PRENTICE-HALL INC., ENGLEWOOD CLIFFS, NJ, 1973, COMPUTER APPLICATIONS IN ELECTRICAL ENGINEERING SERIES, (TKS102.5+A283), P 295-370, I3 REFS (ANNOTATION UNDER S.4)

NLKER, PHILIP M., STUART L, MATHISON, SPECIALIZEO COMMON CARPIERS, (GEORGETOWN, UNIV, OF, WASHINGTON, DC, LAW CENTER, Little (Arthur D.) Inc., cambridee, ma). Telephone encineer and Management, is Oct 71, p ai=60, 8 refs WALKER, PHILIP M.,

ISSUES ASSOCIATED WITH THE INTRODUCTION OF SPECIALIZED COMMON CARRIERS FOR DATA COMMUNICATION ARE ADDRESSED. THE FEATURES OF THE MICROFAVE COMMUNICATION. INC. (MCI) AND THE DATA THANSMISSION COMPANY LDATRAN) PROPOSALS ARE DISCUSSED AND THEN THE POTENTIAL IMPACT IS CONSIDERED, POLICY ISSUES AND THE BENEFITS OF COMPETITION ARE COVERED, INCLUDING SOME REASONABLE PREDICTIONS ON THE FUTURE OF DATA COMMUNICATION PROVIDED BY SPECIALIZED AND COMMON CARRIERS. (ALSO UNDER 3-1:0- 3-2-1)

WARDEN, CHARLES, AN ECONOMIC POLICY FOR UNIVERSITY COMPUTER SERVICES. (DATA RESOURCES INC.), GREENBERGER, MARTIN, JULIUS ARDNOFSKY, JAMÉS L. MCKENNEY, WILLIAM F. MASSY, NETWORKS FOR RESEARCH AND EDUCATION: SHARING COMPUTER AND INFORMATION RESOURCES NATIONNIOE. MIT PRESS, CAMBRIDGE, MA, 1973, P 199-206

AN ECONOMIST DISCUSSES THE ECONOMICS OF RESOURCE SHARING, ADDRESSING SPECIFICALLY THE IMPLICATIONS THAT MIGHT RESULT IF THE COMPUTER SERVICE INDUSTRY WERE TO BE MADE A PUBLIC UTILITY.

WIRSCHING, JOSEPH E., COMPUTER OF THE 1980*S-IS IT A NETWORK OF MICROCOMPUTERS7, COMPCON FALL *75, ELEVENTH IEEE COMPUTER SOCIETY CONFERENCE, HOW TO MAKE COMPUTERS EASIER TO USE, DIGEST OF PAPERS, (WASHINGTON, DC, SEPTEMBER 9-II, 1975), INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YORK, 1975, IEEE 75CH0588-6C, P 23-26

THE QUESTION OF WHETHER A NETWORK OF MICROCOMPUTERS CAN BE UTILIZED IN THE SOLUTION OF LARGE SCALE COMPUTER PROBLEMS IS ADDRESSED. A HISTORICAL VIEW OF TRENDS IN COMPUTER ARCHITECTURE IS PRESENTED, DELINEATING THE METHODS BY WHICH INCREASES IN COMPUTING POWER HAVE BEEN ATTAINED, CURRENT EFFORTS IN APPLYING PARALLELISM ARE ANALYZED AND A NETWORK OF MICROCOMPUTERS IS PREPOSED, OUTLINING ITS LIMITATIONS, GENERAL COST COMPARISONS ARE INCLUDED.

UM, THEMAS, GARY G. MOSS, JOHN J. RITENOUR, JR., TECHNICAL TELECOMMUNICATION FORCES, (OEPARTMENT OF THE AIR FOR AIR FORCE COMMUNICATIONS SERVICE), IEEE 1974 NATIONAL TELECOMMUNICATIONS CONFERENCE, (SAN DIEGO. CA, DECEMBER 2-4, 1974), INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YORK, 1974, IEEE P-74CHD902-7-CSCB, (LC S7-20724), P 461-467, 29 REFS VIUM. THOMAS. JOHN J. RITENOUR, JR., TECHNICAL TELECOMMUNICATION FORCES, (DEPARTMENT OF THE AIR FORCE,

BIBL IOGRAPHY

I.6 FORECASTS

BACKGROUND IS PRESENTED ON THE GROWING INTERACTION OF TELECOMMUNICATIONS AND ADP, ALONG WITH A GENERAL DISCUSSION OF PRESENT AND FUTURE TEENDS IN TELECOMMUNICATIONS. A COMPREHENSIVE OVERVIEW IS GIVEN OF THE PROBLEMS FACING SYSTEMS MANAGERS AND PLANNERS, AS WELL AS COMMENTS ON THE IMPACT OF THE CONTINUING REDUCTIONS IN COST OF COMPUTING HARDWARE, EVER INCREASING SOFTWARE COMPLEXITY, IMPROVEMENTS IN TRANSMISSION MEDIA, NETWORKING AND LOCAL LEVEL CONSIDERATIONS, AND SECUPITY, PLUS REMARKS CN INADEQUACIES IN EXISTING PROCEDURES AND STANDARDS, (ALSO UNDER 3.2-0)

I.9 DTHER

- FRANK, HOWARD, SUMMARIES OF DISCUSSION SESSIONS: COMPUTER NETWORKS.(PRESENTED AT THE, PROCEEDINGS OF THE SYMPOSIUM ON LARGE-SCALE NETWORKS, EVANSTON, IL. APRIL IB-19, 1974), (NETWORK ANALYSIS CORP., GLEN COVE, NY), NETWORKS, VOL 5, ISSUE 1, JAN 75, P 69-73 (ANNOTATION UNDER 2.0)
- MITCHELL, H. F., JR., OR., THE FUTURE OF THE SWITCHING COMPUTER, (BUNKER-RAMD CORP., CANOGA PARK, CA, BUSINESS AND INOUSTRY 01V.), CATAMATICN, VOL II, ISSUE 2, FEB 65, P 24-25

INTENDED FOR A GENERAL AUDIENCE, THIS SHORT ARTICLE PREDICTS SOME OF THE CAPABILITIES TO BE PROVIDED BY COMPUTER/COMMUNICATIONS SYSTEMS. IT'S WORTH A GLANCE JUST TO SEE WHERE WE ARE TODAY VIS A VIS THE PREDICTIONS.

ZAKARIAN, Z. V., THE MAO MAD WORLD OF DATA COMMUNICATIONS, (WESTERN UNION GATA SERVICES CD.), INFOSYSTEMS, VCL 19, ISSUE 8, AUG 72, P 18-21

A OISCUSSION OF THE FRUSTRATIONS IN USING A VARIETY OF OATA COMMUNICATIONS FACILITIES IS PRESENTED, FOLLOWED BY THE CONCLUSION THAT OATA COMMUNICATIONS USERS NEED A SINGLE VENDOR WITH TOTAL COMMUNICATIONS SYSTEM RESPONSIBILITY.

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2. THEORY

2.0 GENERAL

BARAN, PAUL, ON DISTRIBUTED COMMUNICATIONS: XI. SUMMARY OVERVIEW, RAND CORP., SANTA MONICA, CA. AUG 64, RC RM-3767-PR. AF 491638)-700. (AD-444 B37). 23F (ANNDTATION UNDER 3.0)

DFFMAN, E. G., JR., M. J. ELPHICK, A. SHOSHANI, SYSTEM DEADLOCKS, (PENNSYLVANIA, STATE UNIV. OF, UNIVERSITY PARK, Newcastle upon tyme, univ. of, iengland), system development corp., santa monica, ca). Computing surveys, vol 3, issue 2, jun 11, p 67-70, ib refs

THIS PAPER ON DEADLOCK SITUATIONS WITHIN INDIVIOUAL COMPUTER SYSTEMS CONTAINS A SURVEY OF TECHNIQUES ALSO APPLICABLE TO A COMPUTER NETWORKING ENVIRONMENT .

NANK, HOWARD, LEONARD KLEINFOCK, ROBERT E, KAHN, COMPUTER COMMUNICATION NETWORK DESIGN--EXPERIENCE WITH THEORY AND Practice, (network analysis corp., glen cove, ny, california, univ, df, LOS angeles, bolt, beranek and newman inc., cambridge, ma), FRANK, HOWARD. CAMBRIDGE, MA); Arips Conference, 1972 spring joint computer comperence, volume 40, iatlantic city, nj, may 16-18, 1972), Afips press, Montvale, nj, 1972, Afips conference proceedings, (LC 55-44701), p 255-270, 52 refs (Annotation under 3.0)

RANK, HOWARD, SUMMARIES OF DISCUSSION SESSIONS: COMPUTER NETWORKS.(PRESENTED AT THE, PROCEEDINGS OF THE SYMPOSIUM DN Large-scale networks, evanston, IL, april 18-19, 1974). (Network Analysis corp., Glen cove, ny), networks, vol 5, issue 1, jan 75, p 69-73

ANYONE GIVING A BRIEFING OR WRITING A PAPER ON COMPUTER NETWORKS USUALLY WANTS TO MENTION THE SIGNIFICANT PROBLEMS IN THE AREA REQUIRING FURTHER RESEARCH. HERE THEY ARE. ALL LISTED AND SUMMARIZED. THE AUTHOR OISTINGUISHES BETWEEN '0JFFICULT BUT THACTABLE' PROBLEMS AND 'AREAS REQUIRING MAJOR BREAKTHROUGHS.' THESE ARE LISTED BELOW FOR REAGER CONVENIENCE; THE SUMMARIES ARE WORTH READING. DIFFICULT BUT TRACTABLE PROBLEMS I. (CIRCUIT VS PACKET SWITCHING 2. PACKET SWITCHING WITH PRIORITIES 3. OESIGN DF INSENSITIVE NETWORKS A. CENTRALIZED VS DISTRIBUTED CONTROL 5. (CENTRALIZED VS OISTRIBUTED DATA BASES 6. MIXED VOICE AND DATA NETWORKS 7. DETWORK SUPULVABILITY AND RELIABILITY B. COST MODEL IMPROVEMENTS 9. USER AND CHARGING MODELS. AREAS REDUIRING "AJOR BREAKTHROUGHS! I. A GOOD DYNAMIC NETWORK THEORY 2. A NETWORK PROTOCOL THEORY 3. A THEORY DF NETWORK MEASUREMENT 6. MACROSCOPIC NETWORK ANALYSIS 5. SOFTWARE OPTIMIZATION. RELIABILITY. ROBUSTNESS 6. NETWORK SECURITY. (ALSD UNDER 1.9)

KLEINRDCK, LEDNARD, CDMPUTER NETWORK RESEARCH, CALIFORNIA, UNIV, OF, LDS ANGELES, DEPT, OF COMPUTER SCIENCE, IS AUG 70, DANC 15-65-C-0285, (ARPA 1380, AD-711 342), 122P, 26 REFS

INCLUDED IN THIS REPORT ARE BOTH GENERAL REFERENCE TO NETWORKING RESEARCH IN PROGRESS AND, IN APPENDIX F, SPECIFIC APPETITIZING COMMENTS ABOUT NETWORK PERFORMANCE MEASURES, MODELING (ESPECIALLY FOR LONG MESSAGES), NODE STORAGE ESTIMATES, ROUTING ALGORITHMS, AND FLCW CONTROL, UNFORTUNATELY, MOST OF THIS MATERIAL IS ONLY A PRELUDE TO A MORE DETAILED DESCRIPTION AND FUTURE WORK.

ROBERTS, LAWRENCE G., D. R. PADEN, NETWORK OF COMPUTERS, SESSION II, DEFINITION, MODELING AND EVALUATION--SESSION Summary, (advanced research projects agency, washington, oc, national security agency, fort meade, mo), proceedings of invitational worksmop on computers, oct 68, p 57-65 (annotation under 1,0)

2.1 ANALYSIS

BENES, V. E., MATHEMATICAL THEORY OF CONNECTING NETWORKS AND TELEPHONE TRAFFIC. BELL TELEPHONE LABS. INC., MURRAY HILL. NJ, ACADEMIC PRESS INC., NEW YORK, 1965, MATHEMATICS IN SCIENCE AND ENGINEERING, VOLUME 17, (TKSIDI-B3B, LC 65-21156), 325P, 90 REFS

RIGOROUS MATHEMATICAL THEORIES AND MODELS FOR TELEPHONE TYPE NETWORKS ARE DEVELOPED IN THIS TEXT. THE EMPHASIS IS ON COMBINATIONAL PROBLEMS OF NETWORK DESIGN AND PROBABILISTIC PROBLEMS OF TRAFFIC ANALYSIS INCLUDING STATISTICAL ANALYSIS OF TRAFFIC MEASUREMENT DATA AND ANALYTICAL APPROACHES TO DETERMINING THE GRADE OF SERVICE. PROBLEMS OF NETWORK DELAY ARE NOT ADDRESSED.

- CERF. V. . G., D. C. COWAN, R. C. MULLIN, R. G. STANTON, TOPOLOGICAL DESIGN CONSIDERATIONS IN COMPUTER COMMUNICATION NETWORKS . COMPUTER COMMUNICATION NETWORKS, SELECTED PAPERS, (PRESENTED AT, UNIV, OF SUSSEX, BRIGHTON, (ENGLAND),), 1973, P 01-018,
- (ANNOTATION UNDER 2.1.1) FRANK, HOWARO, RESEARCH IN STORE AND FORWARD COMPUTER NETWORK, NETWORK ANALYSIS CORP., GLEN COVE, NY, IS DEC 71, 15 JUN-IS DEC 71, ARPA DAHC-1S-70-C-0120, (A0-737 403), 123P, ID REFS

DESIGN ALTERNATIVES ARE INVESTIGATED FOR NETWORKS OF THE ARPANET TYPE IN TERMS OF NETWORK SIZE, TOPOLOGY, AND DATA RATE CONSIDERATIONS FOR THE HIGH SPEED LINKS, IN ADDITION, QUESTIONS OF ROUTING AND RELIABLITY IN STORE-AND-FORWARD NETWORKS ARE ADDRESSED, A DISCUSSION ON THE USE OF THE SO KILDDIT ARPANET LINKS TO SERVE USERS REQUIRING A THROUGHPUT DF 6 KB IS PARTICULARLY INTERESTING, AN ANALYSIS IS PRESENTED JUSTIFYING THE USE OF 50 KB LINKS RATHER THAN 96 KB LINKS.

- FRISCH. IVAN T., DR., TECHINCAL PROBLEMS IN NATIONWIDE NETWORKING AND INTERCONNECTION, (NETWORK ANALYSIS CORP., GLEN (SCF, 17AN 1., DA., FECHNAR PROBLEMS IN NATIONTUE NETWORKING AND INTERCONNECTUD COVE, NY) TERE TRANSACTIONS ON COMMUNICATIONS, VOL COM-23, ISSUE I, JAN 75, P 78-88, 43 REFS (ANOTATION UNDER 3.0)
- KLEINROCK, LEONARO, SIMON S, LAM, PACKET-SWITCHING IN A SLOTTEO SATELLITE CHANNEL, (CALIFORNIA, UNIV, OF, LOS ANGELES) AFIPS CONFERENCE PROCEDINGS, VOLUME 42, 1973, NATIONAL COMPUTER CONFERENCE AND EXPOSITION, (NEW YORK, NY, JUNE 4-8, 1973), AFIPS PRESS, MONTVALE, NJ, 1973, AFIPS CONFERENCE PROCEEDINGS, (LC 55-44701), P 703-710, I3 REFS

THE PERFORMANCE OF A SLOTTED SATELLITE SYSTEM FOR PACKET-SWITCHING IS ANALYZED IN THIS PAPER. MODELS WERE Developed whose results show the relationship between oblay and throughput. The First model is that of a large Population of users each with a small demand on the channel. The second is many small users with the Adoition of one LARGE USER . (ALSO UNCER 2.1.4. 3.2.9)

NTZ, RICHARO R., J. W. WONG, ASYMPTOTIC PROPERTIES OF CLOSEO OUEUEING NETWORK MODELS,(PRESENTEO AT THE, EIGHTH ANNUAL PRINCETON CONFERENCE ON INFORMATION SCIENCES AND SYSTEMS, PRINCETON, NJ, MARCH 28-29, 1974), ICALIFORNIA, UNIV. DF, L ANGELES, GEPT, DF COMPUTER SCIENCE), KLEINROCK, LEONARD, COMPUTER NETWORK RESEARCH, 30 JUN 74, I JAN-30 JUN 74, ARPA DAMC-15-73-C-0368, (AO-A008 422), P MUNTZ . RICHARO R ... ICALIFORNIA, UNIV. OF. LOS 47-52. 9 REFS

THIS PAPER IS AN APPLICATION OF GENERAL PRINCIPLES PRESENTED IN 'ANALYTIC MODELS FOR COMPUTER SYSTEMS PERFORMANCE ANALYSIS' BY R. R. MUNTZ. THE ASYMPTOTIC PROPERTIES OF RESOURCE UTILIZATIONS AND MEAN RESPONSE TIME FOR A GENERAL NETWORK MODEL OF A TIME-SHARING SYSTEM ARE DERIVED, THE CONCEPTS OF LIMITING RESOURCES, SYSTEM BALANCE AND SYSTEM SATURATION ARE DISCUSSED. AND SOME INTERESTING INTERPRETATIONS OF THE RESULTS ARE GIVEN.

ANALYTIC MODELS FOR COMPUTER SYSTEM PERFORMANCE ANALYSIS. (CALIFORNIA, UNIV. OF. LOS ANGELES, DEPT. MUNTZ. RICHARD R.. NTL: RICHARD WILL AUDELS FOR COMPUTER STSTEM PERFORMANCE ANALTSIS, (CALIFORNIA, UNIV. UP. LUS ANGELES, DEP OF COMPUTER SCIENCE) KLEINROCK, LEONARG, COMPUTER NETWORK RESEARCH, 30 JUN 74, 1 JAN-30 JUN 74, ARPA DAHC-15-73-C-0368, (AO-A008 422), P 26-46, 42 REFS

THIS PAPER IS A SURVEY OF RECENT ADVANCES IN THE APPLICATION OF ANALYTIC MODELING TO COMPUTER SYSTEM PERFORMANCE ANALYSIS. EMPHASIS IS PLACED ON MULTIPLE RESOURCE MODELS AND QUEUEIG NETWORK MODELS IN PARTICULAR, A COMPARATIVE SURVEY OF APPROACHES TO THE ANALYSIS OF OULDEIIGN GETWORKS IS PRESENTED. THE APPLICATION OF THESE MODELS TO THE STUDY OF FUNDAMENTAL CONCEPTS SUCH AS SATURATION AND SYSTEM BALANCE IS DISTEM PERFORMANCE ARE DESCRIBED.

SLYKE, R. VAN. W. CHOU. H. FRANK, AVOIDING SIMULATION IN SIMULATING COMPUTER COMMUNICATION NETWORKS. (NETWORK ANALYSIS CORP., GLEN COVE, NY).

2. I ANALYSIS

AFIPS CONFERENCE PROCEEDINGS. VDLUME 42* 1973, NATIONAL COMPUTER CONFERENCE AND EXPOSITION, (NEW YOPK, NY, JUNE 4-8, 1973), AFIPS PRESS, MONTVALE, NJ, 1973, AFIPS CONFERENCE PROCEEDINGS, (LC S5-44701); P 165=169, 11 REFS (ANNOTATION UNDER 2.1.1)

2.1.0 GENERAL

BARAN, PAUL, DN DISTRIBUTED COMMUNICATIONS NETWORKS,(PRESENTED AT, FIRST CONGRESS OF THE INFORMATION SYSTEMS SCIENCES, HOT SPRINGS, VA. NOVEMBER 1962), (RAND CORP., SANTA MONICA, CA), IEEE TRANSACTIONS DN COMMUNICATION SYSTEMS, VOL CS-12, ISSUE 1, MAR 64, P I-9, 1 REFS

THIS IS AN INTERESTING EXPOSITION BECAUSE IT INTRODUCES MANY OF THE BASIC CONCEPTS WHICH WERE LATER IMPLEMENTED IN THE ARPANET. THE DISCUSSION IS CHIEFLY CONCERNED WITH OISTRIBUTED NETWORK ANALYSIS AND THE SURVIVABILITY OF NODES AND LINKS IN THE EVENT OF AN ENEMY THERMO-NUCLEAR ATTACK. A RUDIMENTARY COST ANALYSIS IS PERFORMED ON A VARIETY OF COMMUNICATION TECHNIQUES INCLUDING PULSE REGENERATIVE REPEATERS AND 'MINI-COST' MICROWAVE. A DISCUSSION DN STORE AND FORWARD TECHNIQUES FOLLOWS AND A HEURISTIC ROUTING SCHEME IS DESCRIBED.

FRANK, HOWARD, ANALYSIS AND OPTIMIZATION OF STORE-AND-FORWARD COMPUTER NETWORKS, NETWORK ANALYSIS CORP., GLEN COVE, NY, IS JUN 70, OAHC IS-70-C-0120, (AD-707 438), 62P, 7 REFS

THIS IS A GENERAL DESCRIPTION OF A COMPUTER PROGRAM WHICH SIMULATES AN ARPA-LIKE NETWORK. THE EMPHASIS IS ON FINDING LOW COST TOPOLOGIES WHICH SATISFY CONSTRAINTS ON NETWORK TIME DELAY. RELIABILITY. CONCESTION, AND OTHER PERFORMANCE PARAMETERS. SDME OF THE ASSUMPTIONS EMBOLED IN THE MODEL ARE BASED ON THE INTERNAL DERARITON OF THE IMP. INCLUDING STRATEGIES FOR BUFFER ALLOCATION. IN ADDITION TO PRESENTING THE RESULTS OF A NUMBER OF RUNS THAT DERIVE ALTERNATIVE ARPA NETWORK CONFIGURATIONS UNDER VARIOUS LOADING ASSUMPTIONS THE REPORT ALSO INTRODUCES TECHNIQUES FOR DESIGN OF CENTRALIZED COMPUTER NETWORKS.

FRANK, HOWARD, COMPUTER NETWORKS: ART TO SCIENCE TO ART, (PRESENTED AT THE, PROCEEDINGS DF THE SYMPOSIUM DN LARGE-SCALE NETWORKS, EVANSTDN, IL, APRIL 18-19, 1974). (NETWORK ANALYSIS CORP., GLEN COVE, NY). NETWORKS, VOL S, ISSUE 1, JAN 75, P 7-32, 16 REFS (ANNDTATION UNDER 1,3)

FRANK, HDWARD, SPIN YDUR DATA LINKS INTO AN OPTIMUM NETWORK, (NETWORK ANALYSIS CORP., GLEN COVE, NY), COMPUTER OECISIDNS, VOL 3, ISSUE 12, OEC 71. P 6-11

THIS HIGHLY READABLE ARTICLE PROVIDES A GOOD AND STILL APPLICABLE DISCUSSION OF MANY OF THE NETWORK DESIGN TRAPS THAT MAY BE AND HAVE BEEN ENCOUNTERED BY THE UNKRY. A DESCRIPTION IS GIVEN OF A NETWORK OPTIMIZATION PROGRAM USED BY NETWORK ANALYSIS CORP. IN THE DESIGN OF THE ARA NETWORK.

RATTA, L., U. MONTANARI, ANALYTICAL TECHNIQUES FCR COMPUTER NETWORKS ANALYSIS AND DESIGN, (POLITECNICO OI MILANO, (ITALY), ISTITUTO PER L'ELABORAZIONE DELL'INFORMAZIONE, PISA, (ITALY)), GELENBE, EROL, ROBERT MAHL, COMPUTER ARCHITECTURES AND NETWORKS. MODELLING AND EVALUATION, (AUGUST 12-14, 1974), AMERICAN ELSEVIER PUBLISHING CO. INC., NEW YORK, 1974, (LC 74-83728), P ISS-IBS, 3S REFS

THE GOAL OF NETWORK ANALYSIS IS TO IDENTIFY A MEASURE WHICH CAN BE USED IN THE EVALUATION OF THE BEHAVIOR OF A MESSAGE SWITCHING COMMUNICATIONS NETWORK. THIS PAPER IDENTIFIES THE MOST IMPORTANT PARAMETERS TO BE EVALUATED AND THEN GGES ON TO DEVELOP AN ANALYTICAL EXPRESSION FOR ONE OF THEM: AVERAGE DELAY. ALSO DISCUSSED ARE THE PROBLEMS OF NETWORK RELIABILITY. ALDNG THIS LIRE A SECTION IS INCLUDED WHICH DESCRIBES SOME OF THE AUTHORS' IDEAS BOAUT NETWORK SYNTHESIS WITH THE GOAL OF ACHIEVING GOOD RELIABILITY.

HANSLER, EBERHARD, GERALD K. MCAULIFFE, ROBERT S. WILKOV, OPTIMIZING THE RELIABILITY IN CENTRALIZED COMPUTER NETWORKS, (INTERNATIONAL BUSINESS MACHINES CORP., ZURICH, (SWITZERLAND), RESEARCH LAB., INTERNATIONAL BUSINESS MACHINES CORP., YORKTOWN HEIGHTS, NY, THOMAS J. WATSON RESEARCH CENTER), IEEE TRANSACTIONS ON COMMUNICATIONS, VOL COM-20, ISSUE 3, JUN 72, P 640-644, 9 REFS

THE RELIABILITY OF COMPUTER NETWORKS CONSISTING OF CLUSTERS OF TERMINALS CONNECTED TO REMOTE CONCENTRATORS WHICH ARE CONNECTED TO A CENTRAL MOST IS DISCUSSED. IT IS SHOWN THAT CONFIGURATIONS DTHER THAN THE FREDUENTLY USED STAR MAY BE MORE RELIABLE AND LESS EXPENSIVE.

KLEINRDCK. LEDNARD, ANALYTIC AND SIMULATION METHODS IN COMPUTER NETWORK DESIGN, (CALIFORNIA, UNIV. DF. LDS ANGELES), AFIPS PROCEECINGS. 1970 SPRING JOINT COMPUTER CONFERENCE, VOLUME 36, (ATLANTIC CITY. NJ. MAY S-7, 1970). AFIPS PRESS, MONTVALE. NJ. 1970, AFIPS CONFERENCE PROCEECINGS, (LC SS-44701), P S60-979, IZ REFS

AN ANALYTICAL MODEL FOR A COMPUTER NETWORK IS DERIVED FROM KLEINPOCK'S EARLIER MODEL OF A COMMUNICATIONS NETWORK FOR THE PURPOSE OF DETIMIZING THE SLECTION OF CHANNEL CAPACITIES UNDER PRESENT DAY COST FUNCTIONS. A NEW, ASYNCHRONDUS UPDATING PROCEDURE FOR ROUTING TABLES IN THE IMP'S OF THE ARPANET IS ALSO DESCRIBED IN WHICH UPDATES TAKE PLACE ONLY WHEN SIGNIFICANT CHANGES OCCUR.

KLEINROCK, LEDNARD, COMPUTER NETWORK RESEARCH, CALIFORNIA, UNIV. DF, LDS ANGELES, DEPT. OF COMPUTER SCIENCE, 1S FEB 70, DAFC 1S-69-C-028S, (AD-70S 149), 75P, 4I REFS

INCLUDED IN THIS REPORT ARE BOTH GENERAL REFERENCE TO NETWORKING RESEARCH IN PROGRESS AND, IN APPENDIX F, SPECIFIC COMMENTS ABOUT NETWORK PERFORMANCE MEASURES, MODELING (ESPECIALLY FOR LONG MESSAGES), NODE STORAGE ESTIMATES, ROUTING ALGORITHMS, AND FLOW CONTROL. UNFORTUNATELY, MOST OF THIS MATERIAL IS DNLY A PRELUDE TO A MORE DETAILED DESCRIPTION AND FUTURE WORK.

KLEINROCK, LEDNARD, CDMPUTER NETWORKS, (CALIFDRNIA, UNIV. DF, LOS ANGELES, DEPT, DF CDMPUTER SCIENCE), CARDENAS, A. F., DR., L. PRESSLER, M. A. MARTIN, COMPUTER SCIENCE, WILEY-INTERSCIENCE, NEW YORK, 1972, (LC 71-169162), P 241-284, 40, REFS (ANNOTATION UNDER 1.3)

KLEINRDCK, LEDNARD, MODELS FCR CDMPUTER NETWORKS, (CALIFDRNIA, UNIV. DF, LOS ANGELES, DEPT. DF ENGINEERING), IEEE INTERNATIONAL CDNFERENCE DN COMMUNICATIONS. VOLUME 2, JUN 69, P 21-9--21-16, 13 REFS (ANNDTATION UNDER 1.3)

MAMRAK, SANGRA ANN, COMPARATIVE RESPONSE TIMES OF TIME-SMARING SYSTEMS ON THE ARPA NETWORK, ILLINDIS, UNIV. DF, URBANA, DEPT. CF COMPUTER SCIENCE, MAY 75, IU R-75-722, ARPA DAHC-04-72-C-0001, 141P, 30 REFS

ANALYTICAL, SIMULATION AND STATISTICAL PERFORMANCE EVALUATION TOOLS ARE EMPLOYED TO INVESTIGATE THE FEASIBLITY OF A OYNAMIC RESPONSE TIME MONITOR THAT IS CAPABLE OF PROVIDING COMPARATIVE RESPONSE TIME INFORMATION FOR COMPUTER NETWORK USERS WISHING TO PROCESS VARIOUS COMPUTING APPLICATIONS AT SOME NETWORK COMPUTING NODE. THE RESEARCH DEMONSTRATES THAT SUFFICIENT SYSTEM DATA ARE CURRENTLY OBTAINABLE, AT LEAST FOR THE FIVE DIVERSE ARPA NETWORK SYSTEMS STUDIED IN DETAIL, TO DESCRIEG AND PROCESS VARIOUS COMPUTING PROVIDENTING SYSTEMS AS IT DEPENDS ON SOME MEASURE OF SYSTEM BUSYNESS OR LOAD LEVEL. (ALSO UNDER 2.2)

WHITNEY, V. KEVIN MDDRE, COMPARISON OF NETWORK TOPOLOGY DPTIMIZATION ALGORITHMS. (GENERAL MOTDRS CDRP., WARREN, MI), WINKLER, STANLEY, COMPUTER COMMUNICATIONS: IMPACTS AND IMPLEMENTATION. THE FIRST INTERNATIONAL CONFERENCE ON COMPUTER COMMUNICATION, (WASHINGTON, OC. DCTOBER 24-26, 1972), INTERNATIONAL CONFERENCES ON COMPUTER COMMUNICATION, 1972, ICCC 72-CHC-690-BC, NSF GJ-33239, P 332-337, 10 REFS

ANALYTICAL COMPARISONS OF PROCEOURES THAT DPTIMIZE CENTRALIZED COMMUNICATIONS NETWORKS OF MULTI-OROP LINES ARE IMPOSSIBLE EXCEPT IN A FEW VERY SPECIAL CASES. TO FACILITATE COMPARISON, SEVERAL TOPOLOGY DPIMIZATION PROCEOURES WERE UNIFORMLY CODED AND APPLIED TO A VARIETY OF TEST CONFIGURATIONS. THE TEST CASES WEPE COMPERES NETWORKS HAVING BETWEEN FIFTY AND FIVE HUNDRED TERMINAL LOCATIONS. THE PROCEOURES SELECTED ARE COMMUNICATIONS NETWORKS HAVING BETWEEN FIFTY AND FIVE HUNDRED TERMINAL LOCATIONS. THE PROCEOURES SELECTED ARE CLAPARED WITH MESPECT TO FINAL NETWORK COST, PROCEDUME SECUTION TIME, AND PROCEOURE FLEXIBILITY.

2.1.1 SIMULATION

BALACHANDRAN, V., J. W. MCCREDIE, D. I. MIKHAIL, MODELS DF THE JDB ALLOCATION PROBLEM IN COMPUTER NETWORKS, (CARNEGIE-MELLON UNIV., PITISBURGH, PA, DEPT, DF COMPUTER SCIENCE AND GRADUATE SCHOLL OF INDUSTRIAL ADMINISTRATION), COMMCON 73 - SEVENTH ANNUAL IEEE COMPUTER SCIENCE AND GRADUATE SCHOLL OF INDUSTRIAL ADMINISTRATION), MINIS THROUGH MAXIS -- ARE THEY FOR REAL?', (SAN FRANCISCO, CA, FEBRUARY 27-20, MARCH 1, 1973), INSTITUTE OF ELECTRICA AND ELECTRONIC ENGINEERS INC., NEW YORK: 1973, (LC 60-1620), P 211-214, 6 REFS

THIS PAPER ADDRESSES THE JOB ASSIGNMENT PROBLEM IN A NETWORK OF NON-IDENTICAL BUT FUNCTIONALLY SIMILAR COMPUTERS. INIS PAPER AUDRESSES INE JOB ASSIGNMENT PROBLEM IN A NEIMORM UP NOMELOENTICAL BUT FORCIDURALET SIMILAR OF PRIDDIC REVIEW MODELS ARE FORMULATED USING INTEGER PROFAMING, NETWORK FLDW ALGORITHMS, TRANSPORTATION PR AND HEURISTIC BALANCING PROCEDURES. A VARIETY DF FORMULATIONS ARE STUDIED AND COMPARED USING A SIMULATION A TCCL FCR COMPARING THE DIFFERENT FORMULATIONS. (ALSD UNDER 2.1.4)

BDEHM, B. W., R. MOBLEY, A COMPUTER SINULATION OF ADAPTIVE ROUTING TECHNIQUES FOR DISTRIBUTED COMMUNICATIONS SYSTEMS, RAND CORP., SANTA MUNICA, CA, FEB 66, RC MEMD RM-4782-PR, AF 49(638)-1700, 44P, 2 REFS

A SIMULATICN PROGRAM TO TEST VARIOUS ADAPTIVE TECHNIQUES FOR A MODEL OF A DISTRIBUTED COMMUNICATIONS SYSTEM IS DESCRIBED. THE PROGRAM SIMULATES THE PROGRESS OF MESSAGES THROUGH THE SYSTEM AND MEASURES THE EFFECTS OF ADAPTATION DF THE ROUTING TECHNIQUES TO VARIOUS DEGREES OF LINK AND NODE DESTRUCTION.

DEFM, SHARLA P., PAUL BARAN, DN DISTRIBUTEO COMMUNICATIONS: II. DIGITAL SIMULATION OF HOT-POTATO ROUTING IN A BRDADBAND DISTRIBUTED COMMUNICATIONS NETWORK, RAND CORP., SANTA MONICA, CA, AUG 64, RC RM-3103-PR, AF 49(638)-700, (AD-444 B34), BDEHM, A C 0

THIS IS A DESCRIPTION OF A SIMULATION OF A DISTRIBUTED MESSAGE-SWITCHED NETWORK EXAMINING THE EFFECTIVENESS OF "HCT-PCTATO, RUUTING ON NETWORK MESSAGE DELAY AND OVERALL NETWORK RELIABILITY.

BORTELS, W. H., SIMULATION OF INTERFERENCE OF PACKETS IN THE ALOHA TIME-SHARING SYSTEM, HAWAII, UNIV. OF, HONOLULU, MAR 70, HU TR-B70-2, AF F44620-69-C-0030, 26P, 4 REFS

A SIMULATION OF THE RANDOM ACCESS COMMUNICATION METHOD PROPOSED IN THE UNIVERSITY OF HAWAII ALOHA TIME-SHARING SYSTEM IS REPORTED. IINSIGHT IS PROVIDED INTO THE UPPER LIMIT DF ACTIVE USERS THE ACCESS TECHNIQUE CAN SUPPORT ON A GIVEN CHANNEL, THE AVERAGE NUMBER OF RETRANSMISSIONS REQUIRED AS A FUNCTION OF ACTIVE USERS, AND THE NUMBER OF TIMES A GIVEN PACKET NEEDS TO BE RETRANSMITTED OUE TO INTERFERENCE WITH OTHER PACKETS.

DWOON, EDWARD K., SR., SANORA A. MAMRAK, FRED R. SALZ, SIMULATION--A TOOL FOR PERFORMANCE EVALUATION IN NETWORK COMPUTERS. (ILLINDIS. UNIV. OF. URBANA). AFIPS CONFERENCE PROCEEDINGS. VOLUWE 42, 1973. NATIONAL COMPUTER CONFERENCE AND EXPOSITION, (NEW YORK, NY, JUNE 4-8, 1973), AFIPS PRESS, MONTVALE, NJ. 1973, AFIPS CONFERENCE PROCEEDINGS, (LC SS-44701), P 121-131, 6 REFS BOWDON, EDWARD

A SIMULATION MODEL FOR A NETWORK CENTER IS PRESENTED, THIS MODEL WAS TESTED FOR ACCURACY BY BEING USED TO REPRESENT THE INTERACTION AMONG SIMULATED ENTITIES OF AN EXISTING NETWORK, ILLINET, AT THE UNIVERSITY OF ILLINGIS, THE ARTICLE GOES ON TO PROPOSE A PRIORITY ASSIGNMENT TECHNIQUE OESIGNED TO REPRESENT THE WORTH OF TASKS IN THE SYSTEM AS AN AID TO MORE MEANINGFUL COMPUTER SYSTEM PERFORMANCE MEASUREMENT.

- GY, GEORGE M., GUNTHER LUTHER, TRADE-OFF STUDIES IN COMPUTER NETWORKS. (SYSTEM DEVELOPMENT CORP., SANTA MONICA. CA), COMPOIN 73 SEVENTH ANNUAL LEEE COMPUTER SOCIETY INTERNATIONAL COMPERENCE, DIGEST OF PAPERS. *COMPUTING NETWORKS FROM MINIS THROUGH MAXIS -- ARE THEY FOR REAL?*, (SAN FRANCISCO, CA, FEBRUARY 27-28, MARCH 1, 1973), INSTITUTE OF ELECTRICAL AND ELECTEDNIC ENGINEERS INC., NEW YORK, 1973, (LC 68-1628), P 147-150, S REFS CAOY. GEORGE M... COMPCDN 73 - S (ANNOTATION UNDER 2,1.4)
- CERF, V, G., D. D. CDWAN, R, C. MULLIN, R. G. STANTON, TOPOLOGICAL DESIGN CONSIDERATIONS IN COMPUTER COMMUNICATION TWDEK

NETWORKS, Computer communication networks, selected papers, (presented at, univ, of sussex, brighton, (england),), 1973, p oi-dib,

A LINEAR GRAPH MODEL OF COMPUTER-COMMUNICATION NETWORKS IS PRESENTED WHICH ESTABLISHES A LOWER BOUND ON OELAY AND VULNERABILITY FOR THESE NETWORKS. THE AUTHORS FEEL THAT THESE TWO CRITERIA WOULD BE USEFUL TO NETWORK DESIGNERS FOR MEASURING A PROPOSED NETWORK AGAINST AN 'IDEAL' NETWORK. (ALSO UNDER 24104, 2+1)

PATRICK V.-MCGREGOR, A UNIFIED SIMULATION MODEL FOR COMMUNICATION PROCESSORS, (NETWORK ANALYSIS CORP.,

GLEN COVE, NY), PRDCEECOINGS OF THE 1575 SYMPOSIUM-COMPUTER NETWORKS: TRENDS AND APPLICATIONS, (GAITHERSBURG, MO, JUNE IB, 1975), INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YORK, 1975, 75CH0973-BC, P 40-46, 1B REFS

IN THIS PAPER THE AUTHORS HAVE PRESENTED A UNIFIED SIMULATION MODEL OF COMMUNICATION PROCESSORS. THE MODEL COMBINES THE POSITIVE ATTRIBUTES OF BRUTE-FORCE SIMULATION AND ANALYTIC MODELS THROUGH EVENT SIMULATION OF INTERCONNECTED OUEUEING STRUCTURES, BECAUSE THE MODEL IS VERY GENERAL, THE AUTHORS ASSERT THAT IT CAN BE INFLEMENTED TO GIVE A VERY EFFICIENT AND ACCURATE SIMULATION TODL FOR THE EVALUATION OF COMMUNICATION PROCESSOR OESIGN VARIATIONS, POSSIBLE EXTENTIONS TO THE MODEL ARE NOTED AND CONSIDERATIONS LEADING TO THE EFFECTIVE INFLEMENTATION OF THE MODEL ARE OISCUSSED, (ALSD UNGER 2.1.4)

H. FRANK, R, VAN SLYKE, SIMULATION DF CENTRALIZED COMPUTER COMMUNICATIONS SYSTEMS, (NETWORK ANALYSIS CORP., CHOU. W.. GLEN COVE. NY).

GLEN CUVE, NY). Gata NETWORKS: ANALYSIS AND DESIGN, THIRO DATA COMMUNICATIONS SYM^DOSIUM, (ST. PETERSBURG, FL. NOVEMBER 13-15, 1973), INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YORK, 1973, IEEE CN-73-CHOB2B-4C, P I21-I30, 3 REFS (ANNOTATION UNDER 3.2.2.)

DANTHINE . A .. E. ESCHENAUER + INFLUENCE ON THE NODE BEHAVIOUR OF THE NODE-TO-NODE PROTOCOL, (LIEGE, UNIV. OF

NITHINE, A., E. ESCHENADER, INFLUENCE ON THE NODE BEHAVIOUR OF THE NODE-TO-NODE PROTOCOL, (LIEGE, UNIV. OF, (BELGIUM), FOURTH GATA COMMUNICATIONS SYMPOSIUM, NETWORK STRUCTURES IN AN EVOLVING OPERATIONAL ENVIRONMENT, (OUEBEC CITY, (CANAGA), GCTOBER 7-9, 1975), INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YORK, 1975, IEEE 75-CHIOOOI-7-OATA, P 7-I-7-8, 11 REFS

DESCRIBED IS THE BASIC NODE-TO-NODE PROTOCOL OF A PACKET-SWITCHED NETWORK. A SIMULATION PROGRAM DEVELOPED TO COMPARE SEVERAL PROTOCOLS IS DESCRIBED, AND SOME QUESTIONS ARE RAISED IN CONNECTION WITH ADAPTIVE ROUTING ALGORITHMS. (ALSO UNDER 3.5.1)

DEMERCADO, JOHN, RENE GUINDON, JOHN DASILVA, MICHEL KADOCH, THE CANADIAN UNIVERSITIES COMPUTER NETWORK TOPOLOGICAL CONSIDERATIONS, (MINISTRY OF COMMUNICATIONS, OTTAWA, (CANADA)), WINKLER, STANLEY, COMPUTER COMMUNICATIONS: IMPACTS AND IMPLEMENTATION. THE FIRST INTERNATIONAL CONFERENCE ON COMPUTER COMMUNICATION, (WASHINGTON, OC, OCTOBER 24-26, 1972), INTERNATIONAL CONFERENCES ON COMPUTER COMMUNICATION, 1972, ICCC 72-CHC-60-DE, NSF GJ-33239, P 220-225, 10 REFS

IN CANADA PLANS ARE BEING DEVELOPED FOR A CANADIAN UNIVERSITIES COMPUTER NETWORK (CANUNET). THIS PAPER REVIEWS THE REJUTS OF THE STUDY PREPARED WITHIN THE MINISTRY OF COMMUNICATIONS ON THE TOPOLOGICAL AMALYSIS OF VARIOUS POSSIBLE NETWORK CONFIGURATIONS FOR CANUNET. IN PARTICULAR, SIMULATION RESULTS FOR TWO POSSIBLE IB NODE CANNET TOPOLOGIES ARE PRESENTED. ONE OF THESE TOPOLOGIES IS BASED ON THE USE OF PURELY TERRESTRIAL COMMUNICATION FACILITIES, AND THE OTHER IS BASED ON A COMBINATION OF TERRESTRIAL AND SATELLITE FACILITIES.

DUGICK, A. L., C. D. PACK, ROUND ROBIN SCHEOULING IN A COMPUTER COMMUNICATIONS SYSTEM WITH FINITE SWAP TIME AND STATISTICALLY MULTIPLEXED ARRIVALS. (BELL TELEPHONE LABS. INC., HOLMDEL, NJ), JACKSCN. PFTER E., PROCEEDINGS. ACM/IELEE SECOND SYMPOSIUM ON PROBLEMS IN THE DPTIMIZATION OF DATA COMMUNICATION SYSTEMS. (PALD ALTO, CA. OCTOBER 20-22, 1971), 1971, IEEE CAT-7ICS9-C, P 58-64, 1S REFS

IRLAND, MAREK, SIMULATION OF CIGALE 1974. (WATERLOD, UNIY, OF, ONTARIO, (CANADA), COMPUTER COMMUNICATIONS NETWORK GROUP). GROOF) DATA COMMUNICATIONS SYMPOSIUM. NETWORK STRUCTURES IN AN EVOLVING OPERATIONAL ENVIRONMENT, (QUEBEC CITY, (CANADA), October 7-9, 1975), Institute of electrical and electronics engineers Inc., new york, 1975, IEEE 75-CH10001-7-DATA, P S-13--5-15, 7 REFS

AFTER A BRIEF DESCRIPTION OF CIGALE, A SIMULATION STUDY DESIGNED TO OBSERVE THE BEHAVIOR OF CIGALE UNDER 'REALISTIC' TRAFFIC CONDITIONS IS DESCRIBED. IT IS SUGGESTED THAT THESE RESULTS BE APPLIED TO THE PROBLEM OF CONGESTION CONTROL.

ILLER, T. W., O, F. TOWSLEY, K. M. CHANDY, J. C. BROWNE, A TOOL FOR NETWORK DESIGN: THE AUTOMATIC ANALYSIS OF STOCHASTIC MODELS OF COMPUTER NETWORKS, (TEXAS, UNIV, OF, AUSTIN, OEPT, OF COMPUTER SCIENCES), COMPON 73 - SEVENTH ANNUAL IEEE COMPUTER SOCIETY INTERNATIONAL CONFERENCE, OIGEST OF PAPERS, "COMPUTING NETWORKS FROM MINIS THROUGH MAXIS -- ARE THEY FOR REAL?", (SAN FRANCISCO, CA, FEBRUARY 27-28, MARCH I, 1973), INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS INC., NEW YORK, 1973, (LC 68-1628), P. ISI-ISA, II REFS KELLER. T.

2.1.1 SIMULATION

AN INTERACTIVE SYSTEM WAS DEVELOPED FOR THE ANALYSIS OF CERTAIN QUEUING NETWORK MODELS. THE GOAL OF THE SYSTEM WAS TO PROVIDE A FAST AND INEXPENSIVE TOOL TO AID SYSTEM ANALYSTS IN THE DESIGN AND DEVELOPMENT OF NETWORKS. THE SYSTEM (ALGEBRAIC SOLUTIONS TO QUEUES) AND APPLICATIONS OF THE SYSTEM ARE DESCRIBED.

KERSHENBAUM. AARON, TODLS FOR PLANNING AND DESIGNING DATA COMMUNICATIONS NETWORKS, (NETWORK ANALYSIS CORP., GLEN COVE.

NY). AFIPS CONFERENCE PROCEEDINGS. VOLUME 43, 1974, NATIONAL COMPUTER CONFERENCE, (CHICAGD, IL, MAY 6-10, 1974), AFIPS PRESS, MONTVALE, NJ, 1974, AFIPS CONFERENCE PROCEEDINGS, (LC SS-44701), P S83-S91, B REFS

CAREFULLY DESIGNED AND PROPERLY USED COMPUTER PROGRAMS CAN BE POWERFUL TOOLS FOR ANALYSTS TO EMPLOY IN THE PLANNING AND MANAGEMENT PROCESS. THE AUTHOR DESCRIBES PROGRAMS WHICH CAN BE POWERFUL TOOLS FOR ANALYSTS TO EMPLOY IN THE PLANNING PAPER IS THE DESCRIPTION OF TWO EXAMPLES OF THE USE OF SIMULATION PACKAGES: ONE FOR NETWORK ANALYSIS AND THE OTHER FOR DESIGN. AND MANAGEMENT PROCESS. THE HIGH IGHT OF THE

KLEINROCK, LEONARD, FOUAD TOBAGI, RANDOM ACCESS TECHNIQUES FOR OATA TRANSMISSION OVER PACKET-SWITCHED RADIO CHANNELS. (CALIFORNIA, UNIX, OF, LOS ANGELES). (CALIFORNIA, UNIX, OF, LOS ANGELES). AFIPS CONFREENCE PROCEEDINGS, VOLUME 44, 1975, NATIONAL COMPUTER CONFERENCE, (ANAHEIM, CA, MAY 19-22, 1975), AFIPS PRESS, MONTVALE, NJ, 1975, (LC SS-44701), P 187-201, 17 REFS

ANALYTIC MODELING AND SIMULATION ARE USED IN THIS STUDY OF DATA TRANSMISSION OVER PACKET-SWITCHED RADID CHANNELS. TWO ALTERNATIVES FOR MULTIPLEXING TERMINALS IN THE RADID CHANNEL ARE PRESENTED; CARRIER SENSE MULTIPLE ACCESS (CSMA) AND SPLIT-CHANNEL RESERVATION MULTIPLE ACCESS (SSMA). (ALSO UNDER 2.1.4)

KORN, GRANING A., A MINI-MULTIPROCESSOR SYSTEM FOR ON-LINE SIMULATION OF DYNAMICAL SYSTEMS, (ARIZONA, UNIV. OF, TUCSON) COPCCN 73 - SEVENTA ANNUAL LEEE COMPUTER SOCIETY INTERNATIONAL COMPERENCE, DIGEST OF PAPERS, (AMIGUNA, UNIV. OF, TUCSON) MINIS THROUGH MAXIS -- ARE THEY FOR REAL?, (SAN FRANCISCO, CA, FEBRUARY 27-28, MARCH 1, 1973), INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS INC., NEW YORK, 1973, (LC 08-1628), P 169-172, 4 REFS

A MULTIPROCESSOR SYSTEM OF 17 MINICOMPUTERS FOR ON-LINE SIMULATION OF A OVNAMICAL SYSTEM IS PROPOSEO. AFTER A THEORETICAL DISCUSSION OF SIMULATION OF OVNAMICAL SYSTEMS THE SIMULATION SYSTEM IS DESCRIBEO. COST, PERFORMANCE AND FUTURE OEVELOPMENTS OF THE SYSTEM ARE INCLUDED.

MCOONALO, MILO, MARRY RUDIN, NOTE ON INHERENT AND IMPOSED PRIORITIES IN PACKET SWITCHING, (INTERNATIONAL BUSINESS MACHINES CORP., BOEBLINGEN, (GERMANY), INTERNATIONAL BUSINESS MACHINES CORP., RUSCMLIKON, (SWITZERLAND), ZURICH RESEARCH LAB.). IEEE TRANSACTIONS ON COMMUNICATIONS, VOL COM-22, ISSUE 10, OCT 74, P 1678-1681, 6 REFS (ANNOTATION UNDER 3.2.2)

NIELSEN, NORMAN R., NEW OIRECTIONS FOR NETWORK SIMULATORS, (STANFORO RESEARCH INST., MENLO PARK, CA), Gelenge, Erol, Robert maml, computer architectures and networks, modelling and evaluation, (August 12-14, 1974), American elsevier publishing Co, Inc., NEW York, 1974, (LC 74-83728), P Solisia, 2 Refs

AACNO THE ISSUES ADDRESSED BY A SERIES OF NS-SPONSORED GENERAL WORKING SEMINARS WERE THE CONDITIONS UNDER WHICH COMPUTER NETWORKING COULD EFFECTIVELY BE APPLIED TO RESEARCH AND EDUCATION. THIS PAPER DISCUSSES THE RESEARCH PLAN PREPARED FOR DEVELOPING A MODEL OF A COMPUTER NETWORK WHICH WOULD REPRESENT THESE CONDITIONS.

- RICE, WYN L., SIMULATION STUDIES OF AN ISARITHMICALLY CONTROLLEO STORE AND FORWARD OATA COMMUNICATION NETWORK, (NATICNAL PHYSICAL LAB., TEODINGTON, (ENGLANO)). ROSENFELO, JACK L., INFORMATION PROCESSING 74. PROCEEDINGS OF IFIP CONGRESS 74. I. COMPUTER HAROWARE AND ARCHITECTURE. (STECKHCLM, (SWEEDEN), AUGUST S-10, 1974), AMERICAN ELSEVIER PUBLISHING CO. INC., NEW YORK, 1974, P 151-154, 6 REFS (ANNOTATION UNDER 2.1.3)
- PRICE, W. L., OR., G. W. COWIN, SIMULATION STUDIES OF THE EFFECT OF LINK BREAKOOWN ON OATA COMMUNICATION NETWORK PERFORMANCE, NATIONAL PHYSICAL LAB., TEODINGTON, (ENGLAND), OIV. OF COMPUTER SCIENCE, FEB 75, NPL R-COM-SCI-77, 20P

THIS PAPER DESCRIBES WORK DONE AT NPL ON NETWORK SIMULATION. IN PARTICULAR IT CONCERNS A STUDY OF THE EFFECT OF LINK FAILURE. A PROTOCOL IS DESCRIBED WHICH ENABLES THE NETWORK TO RECOVER AFTER A FAILURE WITH NO LOSS OF DATA PACKETS. IN AN APPENDIX A BRIEF ACCOUNT IN INCLUDED OF A PROGRAM OF WORK ON THE ENHANCEMENT OF THE NETWORK BY THE ADDITION OF EXTRA LINKS./ (ALSO UNDER 2.2)

ICE, W. L., SIMULATION OF DATA TRANSIT NETWORKS, NATIONAL PHYSICAL LAB., TEODINGTON, (ENGLAND). DIV. OF COMPUTER SCIENCE. APR 72, NPL-DCS COM-SCI-S6, IOP, S REFS

THE USE OF AN EVENT-BASED NETWORK SIMULATION PACKAGE IS DESCRIBED IN THIS BRIEF REPORT. THE NETWORK BEING STUDIED A STORE-AND-FORWARD PACKET-SWITCHING NETWORK WITH EIGHTEEN NODES JOINED BY THIRTY-ONE 1.5 MBIT/SEC LINKS.

PRICE, W. L., SIMULATION OF PACKET-SWITCHING NETWORKS CONTROLLED ON ISARITHMIC PRINCIPLES, (NATIONAL PHYSICAL LAB., TEE, W. L. SINGATIUM OF PACKETSHICHING NETHORS CONTROLLED ON IBALIANI OFFIC PHINCIPLES. TARIDARE PHISICAL LAS., TEODINGTON, (ENGLAND), OIV, OF COMPUTER SCIENCE) GATA NETWORKS: AMALYSIS AND DESIGN, THIRO GATA COMMUNICATIONS SYMPOSIUM, (ST. PETERSBURG, FL. NOVEMBER 13-15, 1973), INSTITUTE OF ELECTRICAL AND ELECTRONICE DEGINEERS INC., NEW YORK, 1973, IEEE CN-73-CHOR28-4C, P 44-49, REFS

THE AUTHOR DESCRIBES SIMULATION EXPERIMENTS ON AN ISARITHMICALLY CONTROLLED PACKET-SWITCHING NETWORK. THE ISARITHMIC PRINCIPLE, A METHOD OF CONGESTION CONTROL, PLACES AN UPPER LIMIT ON THE NUMBER OF PACKETS IN TRANSIT AT ONE TIME, ASSUMING THAT ONE OF THE IMPORTANT MEASURING CRITERIA IS THE AVERAGE TIME SPENT BY TRAFFIC IN AWAITING ACMISSION TO THE NETWORK, HE SHOWS HOW THIS TIME CAN BE MINIMIZED.

- VINDRAN, V. K., THAMPY THOMAS, CHARACTERIZATION OF MULTIPLE MICROPROCESSOR NETWORKS, (STANFORO UNIV., CA). CCMPCON 73 SEVENTH ANNUAL IEEE COMPUTER SOCIETY INTERNATIONAL CONFREMENCE. OIGEST OF PAPERS, *COMPUTING NETWORKS FROM MINIS THROUGH MAXIS -- ARE THEY FOR REAL?* (SAN FRANCISCO, CA, FEBRUARY 27-28, MARCH 1, 1973), INSTITUTE OF ELECTRICAL ANO ELECTRONIC ENGINEERS INC., NEW YORK, 1973, (LC 68-1628), P 133-137, 7 REFS RAVINORAN. V. K. (ANNOTATION UNDER 3.1.1)
- REGOING, J. L., COMPUTER NETWORK SIMULATOR, NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER, BETHESDA, MO, SEP 71, NSROC R-36S0, (AD-730 053), 3SP, 14 REFS

A COMPUTER NETWORK MODEL TO ANALYZE DISTRIBUTED GATA BASES IS DESCRIBED. A COMPUTER NODE IS PARAMETERIZED IN TERMS OF MULTIPROGRAMMING CADABILITY, NUMBER OF 1/D CHANNELS, AND THE JOB STREAM CHARACTERISTICS. THE NETWORK IS DESCRIBED TO THE COMPUTER MODEL BY INTER-NODE CONNECTIONS. THE SIMULATOR ALLOWS FOR TRADEOFF ANALYSIS BETWEEN CENTRALIZED AND DISTRIBUTED GATA BASES IN TERMS OF COMMUNICATION LINE AND GATA BASE UTILIZATION.

YKE, R. VAN, W. CHOU, H. FRANK, AVOIDING SIMULATION IN SIMULATING COMPUTER COMMUNICATION NETWORKS, (NETWORK ANALYSIS CORP., GLEN COVE, NY), AFIPS CONFREENCE PROCEEDINGS. VOLUME 42, 1973, NATIONAL CCMPUTER CONFERENCE AND EXPOSITION, (NEW YORK, NY, JUNE 4-8, 1973), AFIPS PRESS, MONTVALE, NJ, 1973, AFIPS CONFERENCE PROCEEDINGS, (LC SS-44701), P 16S-169, 11 REFS

THREE APPROACHES FOR OETERMINING KEY FEATURES OF A SYSTEM BEFORE SIMULATION, AND THUS HELPING TO AVOID UNNECESSARY SIMULATIONS, ARE PRESENTED. THE FIRST TAKES ADVANTAGE OF SITUATIONS IN WHICH EVENTS OCCUR INFREDUENTLY. THE SECOND ARISES FROM SIMULATIONS IN WHICH THE SIGNIFICANT EVENTS OCCUR MOST OF THE TIME AND THE RARE EVENTS ARE OF LESS IMPORTANCE. THE LAST IDEA INVOLVES UTILIZING ANALYTICAL TECHNIQUES BY HYBRID SIMULATIONS. NUMEROUS ILLUSTRATIONS ARE GIVEN. (ALSO UNDER 2-1)

TRIPATHI, PRABOOM C., SIMULATION OF A RANOOM ACCESS OISCRETE AOORESS COMMUNICATION SYSTEM, HAWAII, UNIV. OF, HONOLULU, APR 70, UH TN-70-1, AF F44620-69-C-0030, 16P, 9 REFS

THIS PAPER DISCUSSES RESULTS OBTAINED FROM THE SIMULATION OF A RANDOM ACCESS COMMUNICATION SYSTEM FOR THE ALOMA THIS PAREN DISCUSSES NEEDLIS UBLATED FROM THE SINGLATION OF A NANOW ACCESS COMMONTANT OF THE ADDA SYSTEM. SINCE OFFICES CAN ACCESS THE CHANEL AT RANOW THERE IS A CERTAIN PROBABILITY OF COLLISION OF MESSAGE PACK THE PROBABILITY OF NO COLLISIONS IS PLOTTED AGAINST THE NUMBER OF ACTIVE USER TERMINALS, AND THE PROBABILITY OF SUCCESSFUL PACKET TRANSMISSION WITH THE NUMBER OF RETRANSMISSIONS FOR INCREASING NUMBERS OF ACTIVE USER TERMINALS I PLOTTED. THE ADVANTAGES OF THIS RANOW ACCESS TECHNIQUE OVER TIME-OIVISION AND FREQUENCY-DIVISION MULTIPLEXING AND MESSAGE PACKETS. PLOTTED. THE ADVANTAG

RE, GLENN 0., JOHN H. SCHUENEMEYER, AN INFORMATION OISSEMINATION NETWORK MODEL. (GEORGIA, UNIV. DF. ATHENS), FACTS AND FUTURES. WHAT'S HAPPENING NOW IN COMPUTING FOR HIGHER EQUCATION. PROCEEDINGS OF THE EQUCOM FALL COMFERENCE. WARE. GLENN O..

2.1. SIMULATION

(PRINCETDN, NJ, OCTOBER 9-11, 1973), INTERUNIVERSITY COMMUNICATIONS COUNCIL INC. (EDUCDM), PRINCETON, NJ, 1974, (LC 74-79222), P 62-68, 6 REFS (ANNDTATION UNDER 4,1.9)

L, A. GIMPELSON, UNISIM--A SIMULATION PROGRAM FOR COMMUNICATIONS NETWORKS, (BELL TELEPHONE LABS, INC., de Hee WEBER . HOLMDEL, NJ1 AFIPS PROCEEDINGS, 1964 FALL JOINT COMPUTER CONFEPENCE, VOLUME 26, (SAN FRANCISCO, CA, OCTOBER 1964), SPARTAN BOOKS INC., BALTIMDRE, MD, 1964, AFIPS CONFERENCE PROCEEDINGS, (LC 55-44701), P 233-249, 2 REFS

A SIMULATION PROGRAM IS DESCRIBED WHICH PERMITS THE INVESTIGATION OF POSSIBLE ROUTING CONFIGURATIONS AND CONTROL SCHEMES FOR COMMUNICATION NETWORKS, THE PROGRAM ACCOMMODATES NETWORKS WITH MAXIMUM DIMENSIONS OF 63 NODES AND I TRUNK GROUPS AND HANDLES BOTH DIRECT AND STORE AND FORWARD TRAFFIC.

EBER, J. H., A SIMULATION STUDY OF ROUTING AND CONTROL IN COMMUNICATIONS NETWORKS,(PRESENTED AT, FOURTH INTERNATIONAL TELETRAFFIC CONFEPENCE, LONDON, (ENGLAND), JULY 1964), BELL SYSTEM TECHNICLA JOURNAL, VOL 43, ISSUE 6, NOV 644 P 2639–2676, 6 REFS

THIS REPORT DESCRIBES A STUDY PERFORMED WITH THE AID OF A SIMULATION PROGRAM IN WHICH LARGE NETWORKS ARE EXAMINED TO PROVIDE A GUIDE TO NETWORK DESIGN UNDER VARIOUS CIRCUMSTANCES DE GEOGRAPHY AND LOAD LEVELING, COMPAPISONS ARE MADE CENCERNING ENGINEERED COSTS AND OVERLOAD CAPABILITY DE NETWORKS USING SEVERAL ALTERNATE ROUTING COMFIGURATIONS AND EMPLOYING A NUMBER OF DIFFERENT OPERATING AND CONTROL PROCEDURES.

YAGED, BERNARD, JP., ECONDMIES OF SCALE, NETWORKS, AND NETWORK COST ELASTICITY, (BELL TELEPHONE LABS, INC., HOLMOEL,

NJJ, MALL, ARTHUR O,, III, DIGEST OF THE CONFERENCE ON THE ECONDMIES DF SCALE IN TODAY'S TELECOMMUNICATIONS SYSTEMS, (WASHINGTON, DC, SEPTEMBER 13, 1973), INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YORK, 1973, IEEE 73-CHC-830-0-SCALE, P 26 (ANNDTATION UNDER 2.1.4)

2.1.2 ANALYSIS

N.D.

EARBER, O, L, A., THE CHCICE OF PACKET PARAMETERS FOR PACKET SWITCHED NETWORKS, NATIONAL PHYSICAL LAB., TEDDINGTON, (ENGLAND), DIV. OF COMPUTER SCIENCE, NDV 70, NPL-DCS TM-S1, 7P

TRADEOFFS IN THE DETERMINATION OF PACKET LENGTH AND CONTROL PROCEDURES FOR PACKET SWITCHED NETWORKS ARE DISCUSSED, WITH AN EMPHASIS ON MINIMIZING NETWORK DELAY.

BARR, WILLIAM J., CDST EFFECTIVE ANALYSIS DF NETWORK COMPUTERS, ILLINDIS, UNIV. OF, UPBANA, DEPT. DF COMPUTER SCIENCE, AUG 72, IU-DCS R-72-538, NSF GJ-28289, (PB-211 784), 73P. 44 REFS

SEVERAL EXISTING NETWORKS ARE EXAMINED TO SHOW EXAMPLES OF PROBLEMS AND SOLUTIONS IN NETWORKING. THE AUTHOR SHOWS THE POTENTIAL ADVANTAGES OF NETWORKS FROM A BUSINESSPENSION'S POINT OF VIEW. HE THEN DEVELOPS A PRIDRITY ASS TECHNIQUE WHICH PEPPESENTS THE WORTH OF TASKS IN THE SYSTEM AND CAN BE USED TO DETERMINE LOAD LEVELING RULES FOR TH WHOLE NETWORK. (ALSD UNDER 5.3) ASSIGNMENT

WOON, EOWARD K., SR., NETWORK COMPUTER ANALYSIS, (PRESENTED AT, FIFTH HAWAII INTERNATIONAL CONFERENCE ON SYSTEM SCIENCES,), ILLINDIS, UNIV, OF, URBANA, OEPT, OF COMPUTER SCIENCE, JAN 72, IU-OCS R72-S05, NSF GJ-28289, (PB-207 417), 28P, 64 REFS BOWCON,

LOAC STAPING ON A GEOGRAPHICALLY DISTRIBUTED NETWOPK OF COMPUTERS IS DISCUSSED. AVERAGE INTERARRIVAL RATES AND PROCESSING TIMES FOR PRIOPITY CLASSES ARE USED TO DETERMINE WHAT FRACTION OF THE JOBS IN EACH CLASS SHOULD BE . TRANSMITED EETWEEN CENTERS IN ORDEP TO BALANCE THE AVERAGE WAITING TIMES FOR EACH PRIOPITY CLASS TROUGHOUT THE NETWOR

BOWOON, EOWAPD K., SR., PRIDRITY ASSIGNMENT IN A NETWOPK OF COMPUTERS, IEEE COMPUTER GROUP CONFERENCE, (MINNEAPOLIS, MN, JUNE 17-19, 1969), INSTITUTE OF ELECTPICAL AND ELECTRONICS ENGINEERS INC., NEW YDPK, JUN 69, IEEE 69C-30-C. P 60-66, II REFS

A PRIORITY JOB SCHEDULING ALGORITHM IS DEVELOPED FOP A MULTIPROCESSOP, SINGLE QUEUE SYSTEM, THE ANALYSIS IS EXTENDED TO THE CASE OF A GEOGRAPHICALLY DISTRIBUTED PROCESSOR SYSTEM TO SELECT THE PRIOPITY CLASS MOST SUITABLE FO TRANSMISSION TO A REMOTE PROCESSOR FOR THE BEST NETWORK PERFORMANCE. THE ALGORITHM DEVELOPED IS DEPENDENT UPON STATISTICS GENERATED LOCALLY AT EACH PROCESSOR MITHOUT ANALYZING THE NETWORK OF DISTRIBUTED PROCESSORS AS A WHOLE. THE ARTICLE IS SHOPT ON NON-MATHEMATICAL SUPPORT MATERIAL WHICH WOULD HELP THE READER TO BETTER APPRECIATE THE EFFORT. SUITABLE FOR

BOWDON, EOWARD K., SR., PRIDRITY ASSIGNMENT IN A NETWORK OF COMPUTERS,(PRESENTED AT, 1969 IEEE COMPUTER GROUP CONFERENCE, MINNEAPOLIS, MN, JUNE 17-19. 1969), (ILLINDIS, UNIV. OF, URBANA, OET, OB COMPUTER SCIENCE), IEEE TRANSACTIONS ON COMPUTERS, VOL.C.104. ISSUE 11. NOV 69, P IO21-1026, 12 REFS

BOWGEN PRESENTS A MATHEMATICAL OEVELOPMENT OF AN ANALYTIC TOOL FOR ALLOCATING TASKS ACCORDING TO PRIORITIES AMONG SERVING COMPUTER CENTERS IN A LOAD-SHARING COMPUTER NETWORK. THE RESULTS ARE INTENDED TO BE DIRECTLY APPLICABLE TO THE COLLINS C SYSTEM, A DISTRIBUTED NETWORK OF FOUR COMPUTER CENTERS.

CASEY, R. G., ALLOCATION OF COPIES OF A FILE IN AN INFORMATION NETWORK, (INTERNATIONAL BUSINESS MACHINES CORP., SAN

ISEE, KE G. ALEGUATION UF GUPLES UF A FILE IN AN INFURMATION NEIMURA, (INFERNATIONAL BUSINESS MACHINES CUMPA, SAN JOSE, CA). AFIPS CONFERENCE, 1972 SPRING JOINT COMPUTER CONFEPENCE VOLUME 40, (ATLANTIC CITY, NJ, MAY 16-18, 1972), AFIPS PRESS, MONTVALE, NJ, 1972, AFIPS CONFERENCE PROCEEDINGS (LC SS-44701), P (17-625, 7 REFS

A LINEAP COST MODEL IS GERIVED FOR AN INFORMATION NETWORK RELATIVE TO THE ALLOCATION OF THE COPIES OF A FILE. BOUNDS ARE GERIVED FOR THE NUMBER OF COPIES OF THE FILE THAT SHOULD EXIST IN THE NETWORK AS A FUNCTION OF THE RELATIVE VOLUME OF OUEPY AND UPDATE TRAFFIC OIRECTED TO THAT FILE. (ALSO UNDER 2. I.A.)

CERF, VINTON G., WILLIAM E. NAYLOR, STORAGE CONSIDERATIONS IN STORE-AND-FORWARD MESSAGE SWITCHING, (CALIFORNIA, UNIV, LOS ANGELES). OF 1972 WESCKN TECHNICAL PAPERS, SESSION 7: COMPUTER NETWORKS, (PRESENTED AT, WESTERN ELECTRONIC SHOW AND CONVENTION, SEPTEMBER 19-22, 1972), 1972, P 7-3-1--7-3-8, S REFS

THIS ARTICLE DESCRIBES A MEASUREMENT FACILITY IN THE ARPA NETWORK. IT STUDIES THE AMOUNT OF STOPAGE AND THE AMOUNT OF TIME NEEDED TO REASSEMBLE MULTI-PACKET MESSAGES, ONE ASPECT OF STORE AND FORWARD MESSAGE SWITCHING, FORMULAE ARE GEVELOPED WHICH PREDICT BOTH THE SPACE-TIME PRODUCT REDUIRED FOR MESSAGE PEASSEMBLY AND THE EXPECTED THROUGHPUT WHICH CAN BE ACHIEVED AS A FUNCTION OF MESSAGE LENGTH. (ALSO UNDER 2.2)

O. T. TANG. PROCESSOR ALLOCATION IN A DISTRIBUTED COMPUTER SYSTEM. (INTERNATIONAL BUSINESS MACHINES CORP., YORKTOWN HEIGHIS, NY, THOMAS J. WATSON RESEARCH CENTER), PROCEEDINGS OF THE 1975 SYMPOSIUM-COMPUTER NETWOPKS: TRENDS AND APPLICATIONS, (GAITHERSBURG, MO, JUNE 18, 1975), INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YORK, 1975, 7SCH0973-BC, P 47-54, 10 REFS

IN THE DESIGN OF A DISTRIBUTED COMPUTER SYSTEM, PROCESSORS ARE TO BE ALLOCATED SO THAT PROCESSING REQUIREMENTS FROM TERMINAL STATIONS CAN BE SATISFIED, THIS REPORT ANALYZES SEVERAL ALGORITHMS FOR PROCESSOR ALLOCATION,

A. KERSHENBAUM, A UNIFIED ALGORITHM FOR DESIGNING MULTIDROP TELEPPOCESSING NETWOPKS. (NETWORK ANALYSIS CORP., GLEN COVE, NY).

CATA NETWORKS: ANALYSIS AND DESIGN. THIRD DATA COMMUNICATIONS SYMPOSIUM, (ST. PETERSBURG, FL. NOVEMBER 13-1S, 1973), INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YORK, 1973, IEEE CN-73-CH0028-4C, P 148-156, 18 REFS

THE AUTHORS DESCRIBE A MODIFIED FORM OF KRUSKAL'S ALGORITHM FOR DESIGNING MINIMUM COST MULTIOROP LINES WHICH CONNECT REMOTE TERMINALS TO A CONCENTRATOR OR A CENTRAL DATA PROCESSING COMPUTER. THE ALGORITHM HAS BEEN APPLIED TO LARGE NETWORKS WITH OVER 1.000 TERMINALS, VIELDING EXCELLENT RESULTS AND USING ONLY IS SECONDS OF COMPUTER TIME ON A COC 6600 COMPUTER.

CHU, WESLEY W., ASYNCHRONOUS TIME-DIVISION MULTIPLEXING SYSTEMS. (CALIFORNIA, UNIV. OF. LOS ANGELES, OFPT, OF COMPUTER

BI BL IDGRAPHY

2.1.2 ANALYSIS

ABRANSON, NORMAN, FRANKLIN F. KUO, COMPUTER-COMMUNICATION NETWORKS, PRENTICE-HALL INC., ENGLEWODD CLIFFS, NJ, 1973, COMPUTER APPLICATIONS IN ELECTRICAL ENGINEERING SERIES, (TKS102,5:4283), P 237-268, 30 REFS

AN ASYNCHRONOUS TIME-DIVISION MULTIPLEXING (I.E. STATISTICAL MULTIPLEXING) TECHNIDUE FOR DATA TRANSMISSION IS PROPOSED. THIS TECHNIDUE GREATLY IMPROVES CHANNEL EFFICIENCY, SYSTEM ORGANIZATION FOR ERROR CONTROL, AND MESSAGE SCHEDULING AS COMPARED WITH COMMONLY USED MULTIPLEXING TECHNIDUES IN DATA COMMUNICATIONS SYSTEMS, I.E., FREDUENCY-DIVISION MULTIPLEXING AND SYNCHRONOUS TIME-DIVISION MULTIPLEXING, (ALSO UNDER 3.2.3)

- CHU, WESLEY W., OEMULTIPLEXING CONSIDERATIONS FOR STATISTICAL MULTIPLEXORS, (CALIFORNIA, UNIV. OF, LOS ANGELES, OEPT, OF COMPUTER SCIENCE), JACKSON, PETER E., PROCEEDINGS, ACM/IEEE SECONO SYMPOSIUM ON PROBLEMS IN THE OPTIMIZATION OF DATA COMMUNICATION SYSTEMS, (PALD ALTO. CA. OCTOBER 20-22, 1971), 1971, IEEE CAT-71C59-C, P 32-36, 7 REFS (ANNOTATION UNDER 3-2-9)
- CHU, WESLEY W+, DPTIMAL FILE ALLOCATION IN A COMPUTER NETWORK, (CALIFORNIA, UNIV, OF, LOS ANGELES, DEPT, OF COMPUTER SCIENCE), ASRAMSON, NORMAN, FRANKLIN F+ KUD. COMPUTER-COMMUNICATION NETWORK5, PRENTICE-HALL INC., ENGLEWOOD CLIFFS, NJ, 1973, COMPUTER APPLICATIONS IN ELECTRICAL ENGINEERING SERIES, (TKS102.5,A283), P R2-94, B REFS (ANNOTATION UNDER 2.1.4)
- CHU, WESLEY W., OPTIMAL FILE ALLOCATION IN A MULTIPLE COMPUTER SYSTEM.(PRESENTED AT, IFIP CONGRESS 68, EDINBURGH, (SCOTLAND), AUGUST 5-10, 1968), (BELL TELEPHONE LABS, INC., HOLMOEL, NJ), IEEE TRANSCATIONS ON COMPUTERS, VOL C-10, ISSUE 10, OCT 09, P 885-889, 5 REFS

THIS CHALLENGING PAPER INTRODUCES A NON-LINEAR INTEGER PROGRAM AS A MODEL FOR FILE ALLOCATION IN A DISTRIBUTEO COMPUTER NETWORK. THE SINGLE MEASURE OF OPTIMALITY IS COST. TAKING INTO ACCOUNT STORAGE, UPDATING, TRANSMISSION, REQUEST RATES ANC ALLOWABLE FILE ACCESS TIMES.

- CRAIG, L. J., I. S. REED, OVERLAPPING TESSELLATED COMMUNICATIONS NETWORKS, RAND CORP., SANTA MONICA, CA, OEPT, OF Computer sciences, rand corp., Santa Monica, Ca, Gept, DF electronics, 13 Jun 61, RC P-2359, (AD-676 259), 18P (ANNOTATION UNDER 2.1.4)
- DASILVA, JDHN S., ON THE DESIRABILITY OF INTEGRATING A COMMUNICATION SYSTEM FOR TWO USER CLASSES. (MINISTRY OF Communications, ottawa, (canada)), Compoon 73 - seventh annual leee computer society international conference, digest of papers. *computing networks from Minis Through Maxis -- Are they for Real?*, (San Francisco) ca, february 27-28, March 1, 1973), institute of electrical and electrodnic engineers inc., New york, 1973, (LC 69-1628), p 113-117, 4 Refs

A THEDRETICAL DISCUSSION OF THE PERFORMANCE OF A COMMUNICATION SYSTEM WHICH MUST SERVE TWO CLASSES OF USERS WITH DISTINCT MESSAGE ARRIVAL RATES IS PRESENTED. AN INTEGRATED COMMUNICATION SYSTEM IS COMPARED WITH A SEGREGATED COMMUNICATION SYSTEM UNDER A CHANNEL-CAPACITY CONSTRAINT. (ALSO UNDER 3.2-2)

DEMERCAOD, JOHN, MINIMUM COST-RELIABLE COMPUTER COMMUNICATION NETWORKS, (MINISTRY OF COMMUNICATIONS, OTTAWA, (CANADA)), AFIPS CONFERENCE PROCEEDINGS, VOLUME 41, PART I, 1972, FALL JOINT COMPUTER CONFERENCE, (ANAMEIM, CA, DECEMBER S-7, 1972), AFIPS PRESS, MONTVALE, NJ, 1972, (LC 55-4970), P 53-559

TH(S HIGHLY TECHNICAL PAPER PRESENTS A THEORY OF RELIABILITY PREDICTION FOR GENERAL NETWORKS WHOSE NODES AND LINKS HAVE CONSTANT FAILURE AND REPAIR RATES. THE AUTHOR ASSERTS THAT THE METHODS PRESENTED ARE APPLICABLE TO A LARGE CLASS OF NETWORKS INCLUDING COMPUTER-COMMUNICATION NETWORKS.

COLL, DIXDN R., EFFICIENT ALLOCATION OF RESOURCES IN CENTRALIZED COMPUTER-COMMUNICATION NETWORK DESIGN, MICHIGAN, UNIV, DF, ANN AREDR. SYSTEMS ENGINEERING LAB., NOV 69, MI-SEL TR-36, MI-RADC TR-69-305, AF 30(602)-3953, AF F30602-69-C-0214, 330P, 82 REFS

A THOROUGH TREATHENT OF ANALYTIC DESIGN PROCEDURES FOR CENTRALIZED COMPUTER COMMUNICATION NETWORKS IS PRESENTED. FOLLOWING A NUMBER OF CLEAR AND COMPLETE DEFINITIONS OF RELEVANT TERMS. THE FACTORS INFLUENCING SELECTION OF A CENTRALIZED OR DISTRIBUTED NETWORK ARE DISCUSSED. LEADING TO A CONCLUSION THAT A COMPREMENSIVE STUDY OF THE DESIGN OF CENTRALIZED NETWORKS IS STILL NEEDED. SEVERAL ASSUMPTIONS ARE MADE AND JUSTIFIED IN THE REPORT, INCLUDING PDISSON INTER-ARRIVAL DISTRIBUTIONS FOR DATA FLOW INTO SUCH NETWORKS. FUTURE MORK IS SUGGESTED IN WHICH SOME OF THESE ASSUMPTIONS ARE MODIFIED TO REPRESENT DIFFERENT AND. PERHAPS, STILL MORE REALISTIC CONFIGURATIONS, INCLUDING SUPERIMPOSED CENTRALIZED NETWORKS.

CUDICK, A. L., C. D. PACK, ROUND RDBIN SCHEDULING IN A COMPUTER COMMUNICATIONS SYSTEM WITH FINITE SWAP TIME AND STATISTICALLY MULTIPLEXED ARRIVALS, (BELL TELEPHONE LABS, INC., HOLMDEL, N.), JACKSON, PETER E., PROCEEDINGS, ACM/IEEE SECOND SYMPOSIUM ON PROBLEMS IN THE DPTIMIZATION OF DATA COMMUNICATION SYSTEMS, (PALD ALTC, CA, OCTOBER 20-22, 1971), 1971, IEEE CAT-71C59-C, P S8-64, 15 REFS

ANALYTIC AND SIMULATION TECHNIQUES ARE EMPLOYED TO INVESTIGATE THE EFFECT OF ASYNCHRONOUS TIME DIVISION MULTIPLEXING (ATOM) ON THE PERFORMANCE OF A COMPUTER-COMMUNICATIONS SYSTEM, SOME INTERESTING RESULTS CONCERNING ATOM ARE PRESENTED INCLUDING SOME POSSIBLE DETRIMENTAL EFFECTS ON NETWORK DELAYS. (ALSO UNDER 2-1,1)

ELIE. WICHEL, GENERAL PURPOSE NETWORKS OF COMPUTERS, CALIFORNIA, UNIV, DF, LDS ANGELES, 1970, 125P, 46 REFS (ANNOTATION UNDER 1.2)

ESAU, L. R.+ K. C. WILLIAMS, ON TELEPROCESSING SYSTEM DESIGN- PART II. A METHOD FOR APPROXIMATING THE OPTIMAL NETWORK, IBM SYSTEMS JOURNAL+ VOL 5, ISSUE 3, 1966, P 142-147, 2 REFS

AN ALGORITHM IS DEVELOPED FOR OPTIMIZING A MULTIPDINT NETWORK WHERE A SINGLE CONTROL CENTER IS CONNECTED TO A NUMBER OF TERMINALS IN A MULTI-DROP CONFIGURATION, FIXED LINE CAPACITY, TRAFFIC, AND THE DISTANCE BETWEEN THE PROCESSOR AND THE TERMINALS ARE CONSIDERED.

FERGUSON, MICHAEL J., A STUDY OF UNSLOTTED ALDHA WITH ARBITRARY MESSAGE LENGTHS, (HAWAII, UNIV, DF, HONDLULU, MCGILL UNIV, MONTREAL, (CANADA)), FOURTH DATA COMMUNICATIONS SYMPOSIUM, NETWORK STRUCTURES IN AN EVOLVING OPERATIONAL ENVIRONMENT, (DUEBEC CITY, (CANADA), DCTOBER 7-9, 1975), INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YORK, 1975, IEEE 75-CH10001-7-DATA, P 5-20--5-21, 5 REFS

THIS PAPER PRESENTS AN EXTENSION OF THE ANALYSIS REPORTED IN FERGUSON'S EARLIER WORK ENTITLED 'AN ANALYSIS OF VARIABLE LENGTH PACKETS IN UNSLOTTED ALDHA' (FEB. 1975). THE AUTHOR OESCRIBES THE EARLIER MODEL AS BEING SIMPLE AND SLIGHTLY UNREALISTIC. IN THIS MORE RECENT PAPER HE DESCRIBES THE SAME MODEL BUT THIS TIME WITH AN EXTENDED DFFERED PACKET LENGTH THAT HAY BE ANY OENSITY. (ALSO UNDER 2.1.4)

- FISHER, C. R., R. L. ŠLIGH, THE DATRAN NETWORK, (DATA TRANSMISSION CD., VIENNA, VA), JACKSON, PETER E., PROCEEDINGS, ACM/IEEE SECOND SYMPOSIUM DN PROBLEMS IN THE DPTIMIZATION DF DATA COMMUNICATION SYSTEMS, (PALD ALTO, CA, OCTOBER 20-22, 1971), 1971, IEEE CAT-71CS9-C, P 65-72 (ANNDATION UNDER 3.1.0)
- FRANK, HDWARD, WUSHOW CHDU, TDPDLDGICAL DPTIMIZATION DF COMPUTER NETWORKS. (NETWORK ANALYSIS CORP., GLEN COVE, NY), PROCEEDINGS OF THE IEEE, VOL 60, ISSUE 11, NOV 72, P 1385-1397, S9 REFS (ANNOTATION UNDER 2.1.4)

FRANK, HOWARD, DPTIMAL DESIGN DF COMPUTER NETWORKS, (NETWORK ANALYSIS CORP., GLEN CDVE, NY), RUSTIN, RANDALL, COURANT COMPUTER SCIENCE SYMPOSIUM 3, COMPUTER NETWORKS, (NDVEMBER 30-DECEMBER 1, 1970), PRENTICE-HALL INC., ENGLEWODD CLIFFS, NJ, 1972, PRENTICE-HALL SERIES IN AUTOMATIC COMPUTATION, (LC 79-39373), P 157-183 (ANNOTATION UNDER 2:1.4)

FRANK, HCWARD, THE PRACTICAL IMPACT OF RECENT COMPUTER ADVANCES ON THE ANALYSIS AND DESIGN OF LARGE SCALE NETWORKS. THIRD SEMIANNUAL TECHNICAL REPORT, NETWORK ANALYSIS CORP., GLEN COVE, NY, JUN 74, ARPA DAHC-15-73-C-0135, 370P, 122 REFS

WHILE THE ARTICLE IS HEAVILY DIRECTED TO THE ARPANET, THE INFORMATION IS PERTINENT FOR ALL INTERESTED IN LARGE-SCALE

2.1.2 ANALYSIS

NETWORKS, SOME TOPICS INCLUGE PACKET-SWITCHED COMMUNICATIONS, PACKET RADIO SYSTEMS AND COST/THROUGHPUT/RELIABILITY CHARACTERISTICS OF LARGE PACKET SWITCHED NETWORKS,

SYSTEM OF APL FUNCTIONS TO STUDY COMPUTER NETWORKS. (INTERNATIONAL BUSINESS MACHINES CORP., SAN ERIEDMAN. JOSE . CA. RESEARCH LAB.).

JUSE, CA, RESEARCH LAD./) AFIPS CONFREENCE PROCEEDINGS, VOLUME 42, 1973, NATIONAL COMPUTER CONFERENCE AND EXPOSITION, (NEW YORK, NY, JUNE 4-8, 1973), AFIPS PRESS, MONTVALE, NJ, 1973, AFIPS CONFERENCE PROCEEDINGS, (LC SS-44701), P 141-148, 3 REFS

A COLLECTION OF PROGRAMS WRITTEN ON THE APL TERMINAL SYSTEM ARE DESCRIBED. THESE PROGRAMS, DEVELOPED AS PART OF A LARGER STUDY OF MODELING AND DESIGN OF COMPUTER NETWORKS, MAKE IT POSSIBLE TO CREATE, MODIFY AND EVALUATE GRAPH THEORETIC REPRESENTATIONS OF COMPUTER NETWORKS WHILE WORKING AT THE TERMINAL. (ALSO UNDER 2.1.4)

FRISCH, I. T., M. MALEK-ZAVAREI, AN EFFICIENT PROGRAM FOR REAL-TIME ASSIGNMENT OF JOBS IN A HYBRID COMPUTER NETWORK, (NETWORK ANALYSIS CORP., GLEN COVE, NY. BELL TELEPHONE LABS. INC., HOLMOEL, NJ). TOU, JULIUS T., SUFTWARE ENGINEERING, COINS ***!M04XME 2--PROCEEDINGS OF THE THIRD SYMPDSIUM ON COMPUTER AND INFORMATION SCIENCES, (MIAHI BEACH, FL, DECEMBER 1969), ACADEMIC PRESS, NY, 1971, (LC 76-127707), P 253-264, 12 REFS

THE PURPOSE OFZO'S PAPER IS TO APPLY SOME RESULTS OF CURRENT RESEARCH IN NETWORK FLOWS TO A DIFFICULT PROBLEM ARISING IN THE STUDY OF HYBRIO COMBUTER NETWORKS. THEOREMS ARE PRESENTED WHICH PROVIDE A HEURISTIC METHOD FOR SOLVING A NETWORK FLOW PROBLEM AND WHICH MAY BE SPECIALIZED FOR SOLVING JOB ASSIGNMENTS IN A HYBRID COMPUTER NETWORK.

FRISC+, 1, T., D. K. SEN, ALGORITHMS TO REALIZE DIRECTED COMMUNICATION NETS, CALIFORNIA, UNIV. OF, BERKELEY, DEPT, OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCE, LENKURT ELECTRIC CO., SAN CARLOS, CA, DEC 67, CU-DEECS S177.29, DA-ARD D-31-124-G776, (AD-674 D86), IDP, 7 REFS REPRINT FROM/IEE TRANSACTIONS ON CLRCUIT THEORY, CT-14:4 (DEC 67) 37D-379/

MATHEMATICAL THEORIES ARE FORMULATED FOR A REAL SQUARE UNSYMMETRICAL MATRIX REPRESENTING THE TERMINAL CAPACITY MATRIX A DIRECTED COMMUNICATION NET+

GERLA, MARID, APPROXIMATIONS AND BOUNDS FOR THE TOPOLOGICAL DESIGN OF DISTRIBUTED COMPUTED NETWORKS, (NETWORK ANALYSIS

CORP., GLEN COVE, NY), FOURTH DATA COMMUNICATIONS SYMPOSIUM. NETWORK STRUCTURES IN AN EVOLVING DPERATIONAL ENVIRONMENT, (DUEBEC CITY, (CANADA), OCTOBER 7-9, 1975), INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YORK, 1975, IEEE 75-CH10001-7-DATA, P 4-9--4-15, IS REFS

SINCE A RAPID GROWTH OF DISTRIBUTED NETWORKS IS ANTICIPATED FOR THE FUTURE YEARS, IT IS MOST IMPORTANT TO PROVIDE NETWORK PLANNERS WITH RELIABLE DESIGN TOOLS OF WELL-TESTED EFFICIENCY. THIS PAPER EVALUATES THE EFFICIENCY OF THE TOPOLOGICAL TOOLS PRESENTLY AVAILABLE, REVIEWS THE EXISTING SUBOPTIMAL TECHNIDUES FOR DISTRIBUTED NETWORK OESIGN, OERIVES BOUNDS ON MINIPUM NETWORK COST, AND DISCUSSES EXACT SOLUTION METHODS.

NSLER, EEERHARO, GERALD K. MCAULIFFE, ROBERT S. WILKOV, RELIABILITY CONSIDERATIONS IN CENTRALIZED COMPUTER NETWORKS, (INTERNATIONAL BUSINESS MACHINES CORP., YORKTOWN HEIGHTS, NY, THOMAS J. WATSON RESEARCH CENTER). JACKSDN, PETER E., PPOCEEDINGS, ACM/IEEE SECOND SYMPOSIUM ON PROBLEMS IN THE OPTIMIZATION OF OATA COMMUNICATION SYSTEMS, (FALD ALTO, C.A. OCTOBER 20-22, 1971), 1971, IEEE CAT-71CS9-C, P 96-101, 9 REFS HANSLER. EBERHARO.

AN ANALYSIS OF THE PELIABILITY OF COMPUTER NETWORKS IN WHICH CLUSTERS OF TERMINALS ARE CONNECTED THROUGH REMOTE CONCENTRATORS TO DATA PROCESSING CENTERS IS PRESENTED. IT IS SHOWN THAT NETWORK TOPOLOGIES DIFFERENT FROM A STAR MAY HAVE SIGNIFICANTLY HIGHER FELIABILITY AT NO INCREASE IN COST.

HANSLER, EBEPHARO, G, K, MCAULIFFE, ROBERT S, WILKOV, EXACT CALCULATION OF COMPUTER NETWORK RELIABILITY. (INTERNATIONAL BUSINESS MACHINES CORP., RUSCHLIKON, (SWITZERLAND), RESEARCH LAB., INTERNATIONAL BUSINESS MACHINES CORP., OUBLIN, (IFELAND), INTERNATIONAL BUSINESS MACHINES CORP., ARMONK, NY), AFIPS CONFERENCE PROCEEDINGS, VOLUME 41, PART I, 1972, FALL JOINT COMPUTER CONFERENCE, (ANAHEIM, CA, DECEMBER S-7, 1972), AFIPS PERS, MONYAUE, NJ, 1972, (LC SS-40701), P 49-54, 9 REFS

A PROCEDURE IS PRESENTED FOR EXACTLY CALCULATING THE NODE PAIR FAILURE PROBABILITY IN COMPUTER NETWORKS. It is stated that this procedure may be used to calculate the reliability of the communication paths between any pair of nodes in a distributed computer network as large as the arpa network.

YES, J. F., D. N. SHERMAN, TRAFFIC AND DELAY IN A CIRCULAR DATA NETWORK. (BELL TELEPHDNE LABS, INC., HOLMDEL, NJ), Jackson, peter e., proceedings. acm/ieee second symposium on problems in the Optimization of data Communication systems, (fald alto, ca. october 20-22, 1971), ibig cat-71c59-c, p 102-107, b Refs HAYES .

THE DPERATION AND TRAFFIC BEHAVIOR FOR A DATA TRANSMISSION SYSTEM USING A RING TOPDLOGY ARE STUDIED. DATA IS BLOCKED INTO FIXED LENGTH PACKETS AND MUST BE BUFFERED UNTIL AN EMPTY SLOT ARRIVES ON THE RING, FORMULAS ARE DERIVED FROM WICH APPROXIMATIONS TO AVERAGE MESSAGE DELAY THROUGH THE RING CAN BE CALCULATED. (ALSO UNDER 3+2+1)

DPEWELL, LYNN, W. S. CHOU, HOWARD FRANK, ANALYSIS OF ARCHITECTURAL STRATEGIES FOR A LARGE MESSAGE-SWITCHING NETWORK: A CASE STUDY, (NETWORK ANALYSIS CORP., GLEN COVE, NY). CCMPCON 73 - SEVENTH ANNUAL IEEE COMPUTER SOCIETY INTERNATIONAL CONFERENCE, DIGEST OF PAPERS, *COMPUTING NETWORKS FROM MINIS THROUGH MAXIS -- ARE THEY FOR REAL?*, (SAN FRANCISCO, CA, FEBLUARY 27-20, MARCH 1, 1973), INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS INC. NEW YORK 1973, (LC 6M-1620), P IIB-123, 2 REFS HOPE WELL .

THIS PAPER REPORTS ON A STUDY MADE TO OETERMINE THE BEST SYSTEM MODEPNIZATION PROCEDURE FOP THE FEDERAL AVIATION AGENCY'S MESSAGE SWITCHING NETWORK, SEVERAL APPROACHES WERE DEVELOPED USING SPEED LINES, CONCENTRATORS, BUFFERED TERMINALS AND NETWORK TOPOLOGIES, AND THEN COMPARED ON A COST VERSUS CAPACITY BASIS. THESE STRATEGIES AND THE RESULTS OF THE STUDY ARE DESCRIBED. (ALSO UNDER 3-1,-2)

HESPORD, JOHN E., OPTIMAL ALLOCATION OF LEASED COMMUNICATION LINES, (LOCKHEED MISSILES AND SPACE CO., SUNNYVALE, CA), MANAGEMENT SCIENCE, VOL 9, ISSUE 4, JUL 63, P 613-622, 4 REFS

SOME PRACTICAL COMMENTS, ANALYTICAL TECHNIQUES, AND TABLES FOR MULTI-SERVER QUEUING APPLIED TO MULTIPLE COMMUNICATION LINES BETAEEN TWO POINTS IN SUPPORT OF A NETWORK ARE INCLUDED IN THIS ARTICLE, THE DISCUSSION IS ALSO APPLICABLE TO DETERMINING THE NUMBER OF PORTS NEEDED DO N A TIME-SHARING SYSTEM OR CONCENTRATOR TO SUPPORT ESTIMATED TERMINAL LOADING.

INTERFACE MESSAGE PROCESSORS FOR THE ARPA COMPUTER NETWORK, QUARTERLY TECHNICAL REPORT NO, 13, BOLT, BERANEK AND NEWMAN INC., CAMBRIDGE, MA, ARR 72, I JAN-3D APR 72, BBN R-2353, BBN OTR-I3, DAHC IS-69-C-0179, 3IP (ANNOTATION UNDER 3.1.1)

RANI, K. B., I. S. UPPAL, J. W. BOYSE, O. M. COLEMAN, O. L. HINSHAW, G. A. MCCLAIN, L. S. RANDALL, A. M. WOOLF, A STUDY Of Imformation in multiple-computer and multiple-console data processing systems, michigan, univ. Of, ann arbor, systems Engineering Lab, aug 7), Mi-Sel ar-4, Af Fodo02-09-C-0214, (AD-726 194), 1769, 57 REFS IRANI .

THIS AMBITIOUS REPORT DEVELOPS MATHEMATICAL TECHNIQUES FOR ANALYZING MULTIPLE COMPUTER, MULTIPLE TERMINAL ON-LINE SYSTEMS FOR THE PURPOSE OF DETERMINING OPTIMAL CONFIGURATION AND EFFICIENT SCHEDULING OF RESOURCES IN THIS TYPE OF SYSTEM.

KLEINROCK, LEONARO, RESOURCE ALLOCATION IN COMPUTER SYSTEMS AND COMPUTER-COMMUNICATION NETWORKS, (CALIFORNIA, UNIV. OF, LOS ANGELES, OFFI, OF COMPUTER SCIENCE), ROSENFELO, JACK L., INFORMATION PROCESSING 74. PROCEEDINGS OF IFIP CONGRESS 74. I. COMPUTER HAROWARE AND ARCHITECTURE, (STECKHOLM, (SWEDEN), AUGUST S-IO, 1974), AMERICAN ELSEVIEP PUBLISHING CO, INC., NEW YORK, 1974, P 11-18, 25 REFS

RESOURCE SHARING TRADEOFFS AMONG PERFORMANCE, THROUGHPUT, EFFICIENCY, RESOURCE CAPACITY, AND THE NUMBER OF RESOURCES ARE DISCUSSED, QUELING THEORY IS USED TO PROVIDE CONVINCING ARGUMENTS THAT *BIGGER IS BETTER, WHEN ALLOCATING RESOURCES IN COMPUTER SYSTEMS AND COMMUNICATIONS NETWORKS, WHILE CONTAINING SOME 37 FORMAL EQUATIONS, THERE ARE MORE THEN AMPLE FIGURES TO HELP THE SERIOUS READER UNDERSTAND THE AUTHOR'S ARGUMENTS.

KLEINROCK, LEONARO, SCHEOULING, QUEUEING, AND OELAYS IN TIME-SHARED SYSTEMS AND COMPUTER NETWORKS, (CALIFORNIA, UNIV, LEIMOLOR, LEUMARD, SCHEUDEING, MUEDEING, AND UELATS IN TIME-SHARED STSTEMS AND CUMPTER METMORKS. (CALIFONNIA, UNIV OF, LOS ANGELES, OEPT, DE COMPUTER SCIENCE). ABRAMSON, NORMAN, FRANKLIN F, KUG, COMPUTER-COMMUNICATION NETWORKS, PRENICE-HALL INC., ENGLWOOD CLIFFS, NJ, 1973, COMPUTER APPLICATIONS IN ELECTRICAL ENGINEERING SERIES, (TKSID2,S-A283), P 95-141, 64 REFS

2.1.2 ANALYSIS

THIS PAPER PRESENTS STUDIES ON THE TYPES OF DELAYS THAT ARE INTRODUCED IN THE PROCESS OF TRANSMITTING MESSAGES WITHIN A COMPUTER NETWORK. IT ADDRESSES TWO BASIC SOURCES OF OELAYS IN TWO SEPARATE ROUTINES: DELAY EXPERIENCED BY A MESSAGE AT THE INTERNAL NODES OF A NETWORK WHEN IT REDUESTS SERVICE OF A REMOTE TIME-SHAPED SYSTEM, AND DELAY INTRODUCED BY THE NETWORK TRANSMITTING A REDUEST FOR SERVICE OR RETURNING RESULTS OF COMPUTATIONS.

KLEINROCK, LEONARD, SURVEY OF ANALYTICAL METHODS IN QUEUEING NETWORKS, (CALIFORNIA, UNIV. OF, LOS ANGELES), RUSTIN, RANDALL, COURANT COMPUTER SCIENCE SYMPOSIUM 3. COMPUTEP NETWORKS, (NOVEMBER 30-DECEMBER 1, 1970), PRENTICE-HALL INC., EMGLEWODD CLIFFS, NJ, 1972, PRENTICE-HALL SERIES IN AUTOMATIC COMPUTATION, (LC 79-39373), P 185-205, 11 REFS (ANNOTATION UNDER 1,3)

KONHEIM, ALAN G., BERNO MEISTER, POLLING IN A MULTIOROP COMMUNICATION SYSTEM: WAITING LINE ANALYSIS, (INTERNATIONAL BUSINESS MACHINES, ZURICH, (SWITZERLAND), RESEARCH LAB.), JACKSCN, PETER E., PROCEEOINGS, ACM/IEEE SECONO SYMPOSIUM ON PROBLEMS IN THE OPTIMIZATION OF DATA COMMUNICATION SYSTEMS, (PALO ALTO, CA, OCTOBER 20-22, 1971), 1971, IEEE CAT-71CS9-C, P 124-129

A COMMUNICATIONS SYSTEM CONTAINING GATA INPUT TERMINALS, BUFFERED AND MULTIOROPPED, CONNECTED TO A CENTRAL Station which performs sequential polling of the terminals is analyzed. The distribution of queue lengths throughout the system is calculated.

KUMMERLE, KARL, MULTIPLEXOR PERFORMANCE FOR INTEGRATED LINES-AND PACKET-SWITCHED TRAFFIC. (INTERNATIONAL BUSINESS MACHINES CORP., RUSCHLIKON, (SWITZERLAND)). THE SECOND INTERNATIONAL CONFERENCE ON COMPUTER COMMUNICATION. COMPUTER COMMUNICATION TODAY AND UP TO 1985, (STOCKHOLM, (SWEDEN), AUGUST 12-14, 1974). INTERNATIONAL COUNCIL OF ICCC, I974, P 507-515, 11 REFS

THE PROBLEM OF MAKING A PACKET-SWITCHED NETWORK APPEAR TO BE LINE-SWITCHED IS POSED. SEVERAL SOLUTIONS ARE OUTLINED AND THEN TWO, FIXED BOUNDARY AND MOVEABLE BOUNDARY SOLUTIONS, ARE ANALYZED.

LAVIA, ANTHONY, ERIC G. MANNING, PERTURGATION TECHNIOUES FOR TOPOLOGICAL OPTIMIZATION OF COMPUTER NETWORKS, (WATERLOO, UNIV. OF, ONTARIO. (CANADA). COMPUTER COMMUNICATIONS NETWORKS GROUP). FOURTH DATA COMMUNICATIONS SYMPOSIUM. NETWORK STRUCTURES IN AN EVOLVING OPERATIONAL ENVIRONMENT, (OUEBEC CITY, (CANADA), OCTOBER 7-9, 1975). INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YORK, 1975. IEEE 75-CH10001-7-DATA, P 4-16-4-23, 18 REFS

A PERTURBATION SOLUTION METHOD IS PRESENTED FOR THE DESIGN OF COMPUTER COMMUNICATION NETWORKS WITH MINIMAL TOPOLOGICAL COSTS, UNDER RELIABILITY AND PERFORMANCE REQUIREMENT CONSTRANTS. THE TECHNIQUES DESCRIBED HAVE BEEN APPLIED TO A CANADIAN NETWORK RESULTING IN A REPORTED COST IMPROVEMENT OF AROUND \$30,000 PER YEAR, WITH AN EXPENDITURE OF LESS THAN \$10 OF (ALSO UNDER 3.2.2)

LIPNER, S. B., P. MELANSCN, COMPUTATION OF MESSAGE DELAYS IN A COMMUNICATIONS NETWORK, MITRE CORP., BEOFORO, MA, 10 DEC 71, MC WP-4083, AF F19(628)-71-C-0002, 17P. 2 REFS

A COMPUTER PROGRAM IS DESCRIBED THAT MAY BE USED TO EVALUATE THE DELAYS EXPERIENCED BY TRAFFIC FLOWING IN A COMPUTER COMMUNICATIONS NETWORK. THE PROGRAM IS BASED ON KLEINROCK'S MODEL (SEE 'ANALYTIC AND SIMULATION METHODS IN COMPUTER NETWORK DESIGN. IN CATEGORY 2.1.0) FOR DELAYS IN THE APPA NETWORK. LISTINGS, FLOWCHARTS AND OPERATING INSTRUCTIONS ARE PROVIDED. AS WELL AS AN EXAMPLE OF THE USE OF THE PROGRAM.

LIVINGS, HAROLO E., UDD W. POOCH, SELF ADAPTIVE TELEPROCESSING NETWORK DESIGN, (TEXAS A AND M UNIV., COLLEGE STATION, OPPT. OF INDUSTRIAL ENGINEERING), PROCEDUINGS OF THE 1975 SYMPOSIUM-COMPUTER NETWORKS: TRENOS AND APPLICATIONS, (GAITHERSBURG, MO. JUNE 18, 1975),

INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YORK, 1975, 75CH0973-BC, P 55-60, 4 REFS

THIS PAPER DESCRIBES A SELF ADAPTIVE, HEURISTIC TECHNIQUE FOR DESIGNING TELEPROCESSING OR DATA COMMUNICATIONS NETWORKS. A COMPLETE NETWORK DESIGN PACKAGE HAS BEEN DEVELOPED USING THIS TECHNIQUE, THE RESULTING SYSTEM PRODUCES NEAR DOTIMAL NETWORK DESIGNS WITH WINIMAL COMPUTATION, OPTIMALINTY IN THIS SENSE IS ANALYZED IN TEMPS OF DVERALL NETWORK COST./

MANNING, ERIC, A HOMOGENEOUS NETWORK FOR DATA SHARING, (WATERLOD, UNIV. OF, ONTARIO, (CANAGA), OEPT. OF APPLIED ANALYSIS AND COMPUTER SCIENCE), GLENBE, ERCL, ROBERT MAHL, COMPUTER ARCHITECTURES AND NETWORKS. MODELLING AND EVALUATION, (AUGUST 12-14, 1974), AMERICAN ELSEVIER PUBLISHING CO. INC., NEW YORK, 1974, (LC 74-83728), P 345-353, 9 REFS (ANNOTATION UNDER 3.2.2)

MARCHESE, J. F., W. GERHARO, SOME EFFECTS OF SWITCHED NETWORK TIME OELAYS AND TRANSMISSION SPEED ON OATA BASED/DATA COMMUNICATION SYSTEMS, (INTERNATIONAL BUSINESS MACHINES CORP., ZURICH. (SWITZERLAND), RESEARCH LAB.), WINKLER, STANLEY, COMPUTER COMMUNICATIONS: IMPACTS AND IMPLEMENTATION. THE FIRST INTERNATIONAL CONFERENCE ON COMPUTER COMMUNICATION, (WASHINGTON, OC, OCTOBER 24-26, 1972), INTERNATIONAL CONFERENCES ON COMPUTER COMMUNICATION, 1972, ICCC 72-CHO-69-DER, NSF GJ-33239, P 352-357, 3 REFS

THE EFFECTS ON THE USER OF COMMUNICATION NETWORK SWITCHING SPEED AND DATA RATES ARE EXAMINED AND THE SENSITIVITY OF SWITCHING COST TO SWITCHING SPEED IS ANALYZED. THE CONCLUSIONS ARE INTUITIVE, BUT ANALYTICAL MATERIAL IS DEVELOPED IN SUPPORT OF THEM.

MCCREGOR, P., O. SHEN, LOCATING CONCENTRATION POINTS IN DATA COMMUNICATION NETWORKING, (NETWORK ANALYSIS CORP., GLEN

COVE, NY), FOURTH DATA COMMUNICATIONS SYMPOSIUM. NETWORK STRUCTURES IN AN EVOLVING OPERATIONAL ENVIRONMENT, (QUEBEC CITY, (CANADA), OCTOBER 7-9, 1975), INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YORK, 1975, IEEE 75-CH10001-7-DATA, P 4-1-4-8, 30 REFS

THIS PAPER CONSIDERS A TOPOLOGICAL DESIGN ASPECT OF THE PROBLEM OF ACCESS OF NETWORK RESOURCES. IN PARTICULAR, THE PROBLEM OF LOCATING *ACCESS FACILITIES*, OR CONCENTRATION POINTS, TO OBTAIN AN ECONOMIC CONNECTION OF *USERS* TO *RESOURCES* IS CONSIDERED. AN ALGORITHM IS PRESENTED FOR THE DESIGN OF MULTIDROP NETWORKS THAT MAY INCORPORATE GENERIC ACCESS FACILITIES TO ECONOMICALLY CONNECT NODES (USERS) TO RESOURCE CONNECTION POINTS. EXTENSION OF THE BASIC ALGORITHM TO HANDLE MORE GENERAL PROBLEMS IS DISCUSSED.

MEISTER, B., M. R. MULLER, M. R. RUGIN, JR., OPTIMIZATION OF A NEW MODEL FOR MESSAGE-SWITCHING NETWORKS, (INTERNATIONAL BUSINESS MACHINES CORP., ZURICH, (SWITZERLANO), ZURICH RESEARCH LA8.), BLACKER, HARRY L., IEEE INTERNATIONAL CONFERENCE ON COMMUNICATIONS. VOLUME 7, (MONTREAL, (CANADA), JUNE 14-16, 1971), INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YORK, 1971, IEEE CAT-71C28-COM, (LC 64-23226), P 39-16 -39-21, 6 REPS

THE AUTHORS DESCRIBE CRITERIA DEVELOPED FOR OPTIMUM CAPACITY ASSIGNMENT OF STORE-AND-FORWARD OR MESSAGE-SHITCHING NETWORKS USING A NETWORK MODEL WHICH CONTAINS NOGAL PROCESSORS AND INTERCONNECTING LINKS. IT INCLUDES THE EFFECT OF NODAL PROCESSORS ON COST AND PERFORMANCE OF THE NETWORK. LINEAR AND STEPPED COST FUNCTIONS ARE CONSIDERED.

CPOERBECK, HOLGER, LEGNARD KLEINROCK, THE INFLUENCE OF CONTROL PROCEDURES ON THE PERFORMANCE OF PACKET-SWITCHED NETWORKS, (CALIFORNIA, UNIV. OF, LOS ANGELES), IEEE 1974 NATIONAL TELECOMWNICATIONS COMFERENCE, (SAN DIEGO, CA. DECEMBER 2-4, 1974), INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YORK, 1974, IEEE P-74CH0902-7-CSCB, (LC 57-20724), P B10-B17, 13 REFS

HERE IS AN EXCELLENT INTRODUCTION TO THE PROBLEM OF DESIGNING AND VALIDATING FLOW CONTROL MECHANISMS FOR COMPUTER NETWORKS. SEVERAL DIFFICULTIES WITH SCHEMES ORIGINALLY TRIED IN THE APPANET ARE ILLUSTRATED WITH THE SOLUTIONS TO CORRECT THEM. UNFORTUNATELY, NO SATISFACTORY SOLUTION TO THE GENERAL PROBLEM OF DISCOVERING HIDDEN PROBLEMS IS AVAILABLE YET. (ALSO UNDER 2.1.3)

ROBERTS, LAWRENCE G., OYNAMIC ALLOCATION OF SATELLITE CAPACITY THROUGH PACKET RESERVATION, (DEPARTMENT OF DEFENSE, ARLINGTON, VA. ADVANCED RESEARCH PROJECTS AGENCY), COMPUTER COMMUNICATION NETWORKS, SELECTED PAPERS, (PRESENTED AT, UNIV. OF SUSSEX, BRIGHTON, (ENGLAND),), 1973, P AI-AIS, TO RECE

A PACKET RESERVATION SYSTEM WHICH TAKES ADVANTAGE OF THE MULTI-ACCESS PROPERTY OF SATELLITES IS DESCRIBED AND ANALYTICALLY COMPARED TO FOUR OTHER TECHNIQUES! A FULLY CONNECTED CHANNELIZED NETWORK, A STORE-ANO-FORWARD STAR, A TIME DIVISION MULTI-ACCESS TECHNIQUE AND THE ALDHA RANDOM ACCESS PACKET BROADCAST TECHNIQUE, (ALSO UNDER 3.2.9)

BIBLIDGRAPHY

SENCER, M. A., EVALUATION OF PACKET SWITCHING NETWORK CONTROLLED ON ISARITHMIC PRINCIPLES. (BELL CANADA, COMPUTER COMMUNICATIONS GROUP)

LEEE 1974 NATIONAL TELECOMMUNICATIONS CONFERENCE, (SAN OIEGO, CA, OECEMBER 2-4, 1974), INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YORK, 1974, IEEE P-74CH09D2-7-CSCB, (LC 57-20724), P B3B-B42, 1D REFS

THE BEHAVIOR OF A PACKET SWITCHED NETWORK WITH ISARITHMIC FLOW CONTROL IFIXED LIMIT ON THE NUMBER OF PACKETS IN THE SYSTEM AT ANY ONE TIME! IS MATHEMATICALLY ANALYZED, WITH A NUMBER OF SIMPLIFYING ASSUMPTIONS. THE RESULTS ARE RATHER TERSELY PRESENTED; THIS ARTICLE IS NOT FOR THE CASUAL READER.

- CAPULER, LEUN, ELEMENIANT TELEPHENE SWITCHING THEORY APPLIED TO THE DESIGN OF MESSAGE SWITCHING SYSTEMS. (RAOID CORP. OF AMERICA, NEW YORK, DIV. OF COMMUNICATION SYSTEMS). AFIPS PROCEEDINGS, 1966 FALL JOINT COMPUTER CONFERENCE. VOLUME 29. (SAN FRANCISCO, CA. NOVEMBER 7-10. 1966). SPARTAN BODKS INC., WASHINGTON, DC. 1966, AFIPS CONFERENCE PROCEEDINGS, (LC SS-AA701). P A13-423, S REFS (ANNOTATION UNDER 3.2.1) STANDLER. LEON. ELEMENTARY TELEPHONE SWITCHING THEORY APPLIED TO THE DESIGN OF MESSAGE SWITCHING SYSTEMS. (RADID CORP.
- TREMAN, RANVIR K., PROJECTED RESPONSE CHARACTERISTICS OF THE WWMCCS INTERCOMPUTER NETWORK, MITRE CDRP., WASHINGTON, OC, B May 72, MC WP-9845, AF FIS628-71-C-DDD2, 5AP, 5 REFS (ANNDTATION UNDER 2,1,4)
- URAND, YOSHIYORI, KINJI ONO, SEIICHI INDUE, DPTIMAL DESIGN DF DISTRIBUTED NETWORKS, (KDKUSAI DENSHIN DENWA CO. LTD., TOKYD, (JAPAN)), The second international conference on computer communication, computer communication today and up to 1985, (stockholm, (SWEDEN), AUGUST 12-14, 1974), INTERNATIONAL COUNCIL OF ICCC, 197A, P 413-A20,

THE PAPER PRESENTS TWO NETWORK DESIGN PROBLEMS INVOLVED WITH FILE SHARING: DNE DN A PUBLIC DATA NETWORK AND HE OTHER A privately cwhed network composed of leased lines, design models are mathematically derived, the authors support further examination of Algorithmic design for significant progress in the Development of computer networks.

ERMA, P.K., A. M. RYBEZYNSKI, THE ECONDMICS DF SEGREGATED AND INTEGRATED SYSTEMS IN DATA COMMUNICATION WITH GEOMETRICALLY DISTRIBUTED MESSAGE LENGTHS, IBELL CANADA COMPUTER COMMUNICATIONS, OTTAWA), DATA NETWORKS: ANALYSIS AND DESIGN, THIRO DATA COMMUNICATIONS SYMPOSIUM, (ST. PETERSBURG, FL, NOVEMBER I3-I5, INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS ING., NEW YDRK, 1973, IEEE CN-73-CHOB2D-AC, P 38-43, 7 REFS VERMA. P FL, NOVEMBER 13-15, 1973),

INTEGRATING TWO DIFFERENT MESSAGE SWITCHING SYSTEMS INTO DNE WITH THE RESULTANT INTEGRATED SYSTEM HAVING THE COMBINED CHANNEL CAPACITY NEED NOT NECESSARILY RESULT IN IMPROVED DERFORMANCE. THIS PAPER PRESENTS AN ALGORITHM WHICH IT CLAIMS CAN BE USED TO ESTABLISH THE RELATIVE SUPERIDRITY OF A SEGREGATED OR INTEGRATED SYSTEM FOR GEOMETRICALLY DISTRIBUTED MESSAGE LENGTHS.

WHITE, LEE J., DFTIMUM CONCENTRATOR LOCATION IN TELECOMMUNICATIONS OESIGN, (OHIO, STATE UNIV, OF, COLUMBUS), 1972 PROCEEDINGS OF THE ACM, VOLUME I, (BOSTON, MA, AUGUST 1972), ASSOCIATION FOR COMPUTING MACHINERY, NEW YORK, 1972, P 53A-5A2, 15 REFS

A MATHEMATICAL ANALYSIS OF THE ALLOCATION OF CONCENTRATORS IN A NETWORK IS PRESENTED. A GENERAL MODEL FOR ANALYSIS BASED ON A STAR SUBGRAPH IS PROPOSED.

WILKOV, ROBERT S., ANALYSIS AND DESIGN OF RELIABLE COMPUTER NETWORKS, (INTERNATIONAL BUSINESS MACHINES CORP., YORKTOWN Heights, NY, Thomas J. Watson Research center), IEEE TRANSATICNS ON COMMUNICATIONS, VOL COM-20, ISSUE 3, JUN 72, P 660-678, B6 REFS

THIS IS A SURVEY OF CURRENT RESEARCH IN GPAPH THEORY APPLIED TO CHARACTERIZE COMPUTER NETWORK RELIABILITY. SIGNIFICANT RELIABILITY CRITERIA AND THEIR RELEVANCE TO DIFFERENT APPLICATIONS ARE DISCUSSED AND THE DIFFICULTIES AND LIMITATIONS ASSOCIATED WITH EACH RELIABILITY MEASURE ARE INDICATED.

ZEIGLER . JACK F ... LEGNARD KLEINROCK, NODAL BLOCKING IN LARGE NETWORKS, (CALIFORNIA, UNIV, OF, LOS ANGELES, DEPT. OF

ICLEM, JACK F., LEUNAND KLEINNOCK, NOUAL BLOCKING IN LARGE NEIMUNKS, (CALIFONNIA, UNIV, D+, LOS ANGELES, DEPF, DF CCMPUTER SCIENCE). BLACKER, HARRY L., IEEE INTERNATIONAL CONFERENCE ON COMMUNICATIONS. VOLUME 7, (MONTREAL, (CANADA), JUNE 1A-16, 1971), INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YORK, 1971, IEEE CAT-71C2B-COM, (LC 6A-23226), P 39-9--39-15, ID REFS (ANNOTATION UNDER 2.1,A)

2EIGLER, JACK F., NOCAL BLOCKING IN LARGE NETWORKS, CALIFORNIA, UNIV, OF, LOS ANGELES, COMPUTER SYSTEMS MODELING AND ANALYSIS GROUP. OCT 71, CU-CSMAG ENG-7167, DAHC 15-69-C-D285, IS2P, 27 REFS

NODAL BLOCKING (THE SATURATION OF REASSEMBLY OR STORE-AND-FORWARD BUFFERS IN INTERMEDIATE OR DESTINATION PROCESSORS) IN LARGE NETWORKS IS DISCUSSED RELATIVE TO THE ARPANET. A MARKOVIAN NETWORK MODEL IS DEVELOPED TO PREDICT THE FRACTION OF BLOCKED NODES IN A LARGE-SCALE STORE-AND-FORWARD NETWORK.

2.1.3 RDUTING

AGNEW, CARSON E., ON THE OPTIMALITY OF ACAPTIVE ROUTING ALGORITHMS, (STANFORD, UNIV, OF, CA), IEEE 197A NATIONAL TELECOMMUNICATIONS CONFERENCE, (SAN DIEGO, CA, DECEMBER 2-A, 1974), INSTITUTE OF ELECTRICAL AND ELECTRICIS ENGINEERS INC., NEW YORK, 197A, IEEE P-7ACHO902-7-CSCB, (LC 57-20724), P 1021-1025, 12 REFS

TWO ANALYTIC MODELSE A STORE-AND-FORWARD COMMUNICATIONS NETWORK ARE CONSTRUCTED, ONE TO FIND THE OPTIMAL MESSAGE TWO ANALYTIC MODELSY A SIDRE-ANO-FORWARD COMMONICATIONS NETWORK ARE CONSTRUCTED, ONE TO FIND THE DYIMAL MESSAGE ROUTING AND THE DYTER TO ILLUSTRATE THE EDUILIBRIUM MAINTAINED BY AN ACAPTIVE ROUTING ALGORITHM. MATHEMATICAL MANIPULATION OF THE MODELS DEMONSTRATES THAT ACAPTIVE ROUTING DOES NOT SATISFY THE NECESSARY CONDITIONS FOR AN OPTIMAL ROUTING, ACAPTIVE ROUTING TENDS TO OVERUSE THE MOST DIRECT PATH AND UNDERUSE ALTERNATE ROUTES BECAUSE IT DOES NOT CONSIDER THE IMPACT OF ITS CURRENT ROUTING DECISION ON THE FUTURE OF THE NETWORK.

BARAN, PAUL, ON DISTRIBUTED COMMUNICATIONS: IV, PRIORITY, PRECEDENCE, AND OVERLOAD, RAND CORP., SANTA MONICA, CA, AUG 64, RC RM-3638-PR, AF 49(638)-700, (AD-44A 840), 63P, 6 REFS

THIS REPORT PRESENTS A DETAILED DISCUSSION OF THE DESIGN OF A DISTRIBUTED MESSAGE-SWITCHED NETWORK UNDER OVERLOAD CONDITIONS, THE GOAL IS TO DETERMINE THE EFFECTS OF PRIORITY SCHEMES TO REDUCE LOAD. YET ALLOW IMPORTANT TRAFFIC TO PASS IN AN OVERLOADED NETWORK.

BARAN, PAUL, ON DISTRIBUTED COMMUNICATIONS: V. HISTORY, ALTERNATIVE APPROACHES, AND COMPARISONS, RAND CORP., SANTA MONICA, CA, AUG 64, RC RM-3097-PR, AF A9(638)-70D, (A0-44A 838), 51P, 6 REFS

BARAN DESCRIBES AND COMPARES SEVERAL ROUTING STRATEGIES FOR DISTRIBUTED MESSAGE SWITCHED NETWORKS. HE DISCUSSES THE DIFFICULTY OF DIFFERENTIATING BETWEEN MESSAGE AND CIRCUIT SWITCHED NETWORKS

NTOR, DAVID G., MARID GERLA, OPTIMAL ROUTING IN A PACKET-SWITCHED COMPUTER NETWORK, (CALIFORNIA, UNIV. OF, LOS ANGELES, DEPT. OF MATHEMATICS, NETWORK ANALYSIS CORP., GLEN COVE, NY). IEEE TRANSACTIONS ON COMPUTERS, VOL C-23, ISSUE IO. OCT 74, P 1062-1069, 22 REFS CANTOR. DAVID G.,

THE PRCBLEM OF FINDING OPTIMAL ROUTES IN A PACKET-SWITCHED COMPUTER NETWORK CAN BE FORMULATED AS A NONLINEAR MULTICCMMODITY FLOW PROBLEM.

MULTICLEMMUUTER FLUE FLUE FLUE FLUE FLUE A METHOD WHICH IS BASED ON DECOMPOSITION TECHNIOUES, THIS METHOD WAS ORIGINALLY DEVELOPED FOR A COMPUTER NETWORK APPLICATION AND CAN BE EXTENDED TO A VARIETY OF CONVEX MULTICOMMODITY FLOW PROBLEMS,

CEGRELL, TORSTEN, & ROUTING PROCEDURE FOR THE TIDAS MESSAGE-SWITCHING NETWORK. (ASEA LNE AUTOMATION AB, VASTERAS,

(SWEDEN), AUGUST 12-1A, 1974), INTERNATIONAL COMPUTER COMMUNICATION, COMPUTER COMMUNICATION TODAY AND UP TO 1985, (STOCKHOLM, (SWEDEN), AUGUST 12-1A, 1974), INTERNATIONAL COUNCIL OF ICCC, 197A, P 253-262, 1D REFS

THIS PAPER DEALS WITH A TOTALLY INTEGRATED DATA ACOUISITION AND TRANSMISSION SYSTEM WHICH COVERS ALL OF SWEDEN. THE SYSTEM. UNDER CONSTRUCTION AT THE TIME THIS PAPER WAS SUBMITTED, CONTAINS A DISTRIBUTED COMPUTER-COMMUNICATION NETWORK AT ITS CENTER. AN INVESTIGATION OF SOME ROUTING METHODS SUITABLE FOR THIS NETWORK IS PRESENTED. THE NETWORK IS OF THE STORE AND FORWARD MESSAGE-SWITCHING VARIETY.

VIES, D. W., THE CONTROL OF CONGESTION IN PACKET SWITCHING NETWORKS. (NATIONAL PHYSICAL LAB., TEODINGTON, (ENGLAND)), JACKSON, PETER E., PROCEEDINGS, AGM/IEEE JECONO SYMPOSIUM ON PROBLEMS IN THE OPTIMIZATION OF DATA COMMUNICATION SYSTEMS, (FALO ALTO, C.A. OCTOBER 20-22, 1971), 1971, IEEE CAT-71CS9-C, P 46-49, 2 REFS

THE CONCEPT OF CONGESTION PREVENTION IN A PACKET-SWITCHING NETWORK THROUGH "ISARITHMIC" OPERATION IS INTRODUCED AND ANALY220, THIS TERM IS USED TO REFER TO THE TECHNIQUE OF HOLDING CONSTANT THE NUMBER OF PACKETS IN THE NETWORK.

2.1.3 ROUTING

WHEN DATA CARRYING PACKETS ARRIVE AT A DESTINATION, THEY ARE REPLACED BY EMPTY PACKETS WHICH ARE PUT BACK (NTO THE Network. When data is to be entered into the network, an empty packet is found and replaced by a data packet.

FULTZ, GARY LEE, ADAPTIVE ROUTING TECHNIDUES FDR MESSAGE SWITCHING COMPUTER-COMMUNICATION NETWORKS, CALIFORNIA, UNIV. DF, LOS ANGELES, SCHOOL DF ENGINEERING AND APPLIED SCIENCE, JUL 72, COMPUTER SYSTEMS MODELING AND ANALYSIS GROUP REPORT SERIES, CU-SEAS ENG-7252, OAHC 15-69-C-2028, 4 18P, 131 REFS

ADAPTIVE ROUTING TECHNIQUES APPLICABLE TO MESSAGE SWITCHING COMPUTER-COMMUNICATION NETWORKS, SUCH AS THE ARPA NETWORK, ARE CONSIDERED IN THIS REPORT. EMPHASIS IS ON THE PREDICTION DF AVERAGE MESSAGE DELAY AND THE SPECIFICATION. IMPLEMENTATION AND EVALUATION OF VARIOUS CLASSES OF MESSAGE ROUTING PROCEDURES. A MODEL OF A MESSAGE SWITCHING NETWORK IS UTILIZED AS THE BASIS FOR A SIMULATION PROGRAM TO DETAIN THE PERFORMANCE OF SPECIFIC ROUTING ALGORITHMS. A METHCOCLOGY FOR INVESTIGATING MESSAGE ROUTING STRATEGIES (S DEVELOPED AND ROUTING TECHNIDUES ARE CLASSIFIED.

LEDNARD KLEINROCK, ADAPTIVE ROUTING TECHNIQUES FOR STORE-AND-FORWARD COMPUTER-COMMUNICATION NETWORKS. FULTZ . GARY L ...

LIZ, GARY L., LEUNARD KEETMOCK, ADAPTIVE RUDTING TELMNIDUES FUK SIDME-AND-FUMMAKU CUMPUTEM-CUMMUNICATION NETWOKS, (California, UNIV, OF, Los Angeles, Oept, of computer science), BLACKER, HARPY L., IEEE INTERNATIONAL COMPERENCE CN COMMUNICATIONS VOLUME 7, (MONTREAL, (CANADA), JUNE 14–16, 1971), INSTITUTE OF ELECTRICAL AND ELECTPONICS ENGINEERS INC., NEW YORK, 1971, IEEE CAT-71C2B-COM, (LC 64-2326), P 39-1 -35-B. 17 REFS

THIS PAPER DESCRIBES A STUDY MADE OF ROUTING TECHNIQUES APPLICABLE TO STORE-AND-FORWARD COMPUTER NETWORKS. IT SH THE IMPORTANCE OF THE ROUTING TECHNIQUES IN RELATION TO THE DESIGN AND PERFORMANCE OF NETWORKS. A NUMBER OF ROUTING TECHNIQUES ARE COMPARED USING THE AVERAGE MESSAGE DELAY AS THE MEASURE OF NETWORK PERFORMANCE. (ALSO UNDER 2.2) IT SHOWS

GERLA, MARIO, DETERMINISTIC AND ADAPTIVE ROUTING POLICIES IN PACKET-SWITCHED COMPUTER NETWORKS, (NETWORK ANALYSIS CCRP., GLEN COVE, NY), DATA NETWORKS: ANALYSIS AND DES(GN. THIRO DATA COMMUNICATIONS SYMPOSIUM, (ST, PETERSBURG, FL, NOVEMBER 13-15, 1973), INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YORK, 1973, IEEE CN-73-CHOB28-4C, P 23-28, 13 REFS

EFFICIENT ROUTING POLICIES ARE REQUIRED FOR BDTH THE DESIGN AND OPERATION OF DISTRIBUTED, PACKET-SWITCHED COMPUTER NETWORKS. THE AUTHOR DESCRIBES TWO MAIN CLASSES DF ROUTING POLICIES. IN THE DESIGN PROCESS, DETERMINISTIC POLICIES ARE GENERALLY USCO: FOR THE ROUTING OP PACKETS IN A REAL NETWORK ADAPTIVE POLICIES ARE IMPLEMENTED. THE TWO POLICIES ARE COMPARED USING ANALYTICAL AND SIMULATION METHODS. A NEW CENTRALIZED ADAPTIVE POLICY IS PROPOSED WHICH COMBINES THE POSITIVE FEATURES DF BOTH DETERMINISTIC AND ADAPTIVE POULING.

GERLA. M... W. CHOU, FLOW CONTROL STRATEGIES IN PACKET SWITCHED COMPUTER NETWORKS. (NETWORK ANALYSIS COPP., GIEN COVE.

NY), (EEE 1574 NATIONAL TELECOMMUNICATIONS CONFERENCE, (SAN DIEGO, CA, DECEMBER 2-4, 1974), INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YORK, 1574, IEEE P-74CH0902-7-CSCB, (LC 57-20724), P 1032-103B, B REFS

FLOW CONTROL STRATEGIES ARE THE ENSEMBLE OF CONTROL PROCEDURES IN A NETWORK THAT REGULATE INPUT RATES AND THUS PREVENT NETWORK CONGESTICN. THIS PAPER REPRESENTS A PRELIMINARY EFFORT IN THE DEVELOPMENT OF GENERAL MODELS FOR THE CLASSIFICATION AND EVALUATION OF DIFFERENT FLOW CONTROL STRATEGIES. IN PARTICULAR, EXISTING AND PROPOSED FLOW CONTROL TECHNIQUES ARE REVIEWED, AND DIRECTIONS FOR FUTURE RESEARCH ARE (NDICATED. TWO DIFFERENT TYPES OF FLOW CONTROL ARE DISTINGUISHED: REASEMBLY CONTROL AND STORE AND FORWARD (S/F) CONTROL CLEAR EXPLANATIONS SHOW THE DIFFERENT PROBLEMS EACH TECHNIQUE AND PERFORMANCE IN A NETWORK IS ALSO CLEARLY ILLUSTRATED WITH AN ARPANET EXAMPLE. THIS PAPER SHOULD BE REQUIRED READING FOR ANYONE SEEKING AN INTRODUCTION TO FLOW CONTROL PRINCIPLES.

JILEK, PETER, FLOW CONTROL IN COMPUTER NETWORKS, (SIEMENS AG, MUNICH, (WEST GERMANY)), THE SECONO INTERNATIONAL COMFERENCE ON COMPUTER COMMUNICATION. COMPUTER COMMUNICATION TODAY AND UP TO 1985, (STOCKHOLM, (SWEDEN), AUGUST 12-14, 1074), INTERNATIONAL COUNCIL OF ICCC, 1974, P 239-247, 2 REFS

CISCUSSED IS A METHOD TO CONTROL THE FLOW OF MESSAGES IN A COMPUTER NETWORK. AN ALGORITHM IS PROPOSED WHICH MOULD CONTROL THE FLOW OF DATA IN SUCH A WAY THAT THE RESOURCES OF THE COMMUNICATION SUBNET ARE USED ECONOMICALLY AND A GOOD CCMPROMISE IS ACHIEVED BETWEEN THE REDUIREMENTS OF SHORT TRANSPORT DELAYS FOR INTERACTIVE MESSAGES AND MIGH THROUGPUT EFFICIENCY FOR BATCH MESSAGES.

KLEINROCK, LEDNARO, HOLGER DPOERBECK, THR DUGHPUT IN THE ARPANET - PROTOCOLS AND MEASUREMENT, (CALIFORNIA, UN(V. OF, LOS ANGELES. OEPT. OF COMPUTER SCIENCE, TELENET CORP., WASHINGTON, OC), FOURTH DATA COMMUNICATIONS SYMPOSIUM, NETWORK STRUCTURES IN AN EVOLVING OPERATIONAL ENVIRONMENT, (QUEBEC CITY, (CANADA), DCTDBEP 7-9, 19751, INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YORK, 1975, IEEE 75-CH10001-7-DATA, P 6-I--6-11, 13 REFS

ASSERTING THAT THE SPEED WITH WHICH LAPGE FILES CAN BE TRANSMITTED THROUGH A COMPUTER NETWORK IS AN IMPORTANT PERFORMANCE MEASUREMENT OF THAT NETWORK. THIS PAPER EXAMINES THE ACHIEVABLE SUSTAINED THROUGHPUT IN THE ARPANET. MESSAGE-HANDLING PROTOCOLS ARE ALSO DESCRIBED. (ALSD UNDER 3.5.1, 2.2)

NAYLDR, WILLIAM E,, A LODP-FREE ADAPTIVE ROUTING ALGORITHM FOR PACKET SWITCHED NETWORKS. (CALIFORNIA, UN(V. OF, LOS ANGELES, DEPT. OF COMPUTER SCIENCE). FOURTH DATA COMMUNICATIONS SYMPOSIUM. NETWORK STRUCTURES IN AN EVOLV(NG DPERATIONAL ENVIRONMENT. (QUEBEC C(TY, (CANADA), OCTOBER 7-9, 1973). INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YORK, 1975, IEEE 7S-CHIDDOI-7-DATA, P 7-9--7-14.11 REFS

THE MAIN EMPHASIS OF THIS PAPER IS TO PRESENT A ROUTING ALGORITHM AND PROVE THAT IT IS LOOP-FREE. THE ALGORITHM PRESENTED IS PARTICULARLY DESIGNED FOR THE APPANET, BUT THE AUTHOR STATES THAT ITS ESSENTIAL PROPERTIES ARE TRANSFE TO OTHER PACKET-SWITCHED NETWORKS. RANSFERABLE

DERBECK, HOLGEF, LEONARD KLEINROCK, THE INFLUENCE DF CONTROL PROCEOURES ON THE PERFORMANCE OF PACKET-SWITCHED NETWORKS, (CALIFORNIA, UNIV. OF, LOS ANGELES), IEEE 1974 NATIONAL TELECOMMUNICATIONS CONFERENCE. (SAN DIEGO, CA, DECEMBER 2-4, 1974), INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YORK, 1974, IEEE P-74CHD902-7-CSCB, (LC S7-20724), P BID-B17, 13 REFS (ANNOTATION UNDER 2.1.2)

CKHOLT2, RAYMOND L., CALDWELL MCCOY, JR., IMPROVEMENTS IN ROUTING IN A PACKET-SWITCHED NETWORK, (GEORGE WASHINGTON UNIV., WASHINGTON, OC, NAVAL RESEARCH LAB., WASHINGTON, DC). THE SECOND INTERNATIONAL CONFERENCE ON COMPUTER COMMUNICATION. COMPUTER COMMUNICATION TODAY AND UP TO 1985, (STOCKMOLM, (SWEDEN), AUGUST 12-14, 1974), INTERNATIONAL COUNCIL OF ICCC, 1974, P 249-252, 8 REFS PICKHOLTZ, RAYMOND L ..

THIS PAPER ADDRESSES SDME COMPARISONS OF ADAPTIVE ROUTING ALGORITHMS IN STORE-AND-FORWARD COMMUNICAT(ON NETWORKS. THE CONCERN HERE IS TO DENCHSTRATE HOW SDME RELATIVELY SIMPLE ADD-ONS TO EXISTING ADAPTIVE ALGOR(THMS CAN DECREASE AVERAGE MESSAGE OLLAY AND INCREASE MESSAGE THROUGHDUTIN THE NETWORK.

POLLACK, M., MESSAGE ROUTE CONTROL IN A LARGE TELETYPE NETWORK, (PRESENTED AT, SYMPOSIUM ON "OPTIMUM ROUTING (N LARGE NETWORKS" (IFIP CONGRESS 62), MUNICH, (GERMANY), AUGUST 27-SEPTEMBER 1,1962), (PLANN(NG RESEARCH CORP., LOS ANGELES.

JOURNAL OF THE ASSOCIATION FOR COMPUTING MACHINERY, VOL 11, ISSUE I, JAN 64, P 104-116, S REFS

REAL-TIME METHODS FOR OBTAINING OPTIMAL TRAFFIC ROUTES FOR DIRECTED NETWORKS ARE DETAILED. THE THREE METHODS PRESENTED. ALL UTILIZING DIGITAL COMPUTERS, ARE THE LINK-FLOW METHOD. THE ROUTE-FLOW METHOD. AND THE NEAREST-NEIGHBOR METHOD. THE ADVANTAGES OF THE THIRD METHOD FOR LARGER NETWORKS ARE DISCUSSED.

WYN L., SIMULATION STUDIES OF AN ISARITHMICALLY CONTROLLED STORE AND FORWARD DATA COMMUNICATION NETWORK. PRICE, ICE, WIN LA, SINGLAIDN SIGDES OF AN ISAN HIMILGLEY CONTROLED SIGNA AND HOMAN CAMADE CAMADE LA ALCHANAR AND ARCHITE AND ARCHITECTURE, (NATICHAL ALS., TEODINGTON, (ENGLAND)). ROSENFELC, JACK L., INFORMATION PROCESSING 74, PROCEEDINGS OF IFIP CONGRESS 74.4. NEW YORK, 1974. PISI-154.6 REFS (STOCKHCLM, (SWEDEN). AUGUST 5-10, 1974), AMERICAN ELSEVIES PUBLISHING CO. INC.4. NEW YORK, 1974. PISI-154.6 REFS

THE PRINCIPLE OF ISARITHMIC FLOW CONTROL OF DATA TRAFFIC IN STORE AND FORWARD NETWORKS IS DESCRIBED AND THE RESULTS OF A SERIES OF SIMULATION EXPERIMENTS ARE DISCUSSED. (ALSO UNDER 2.1.1)

PRICE, W. L., DESIGN OF DATA COMMUNICATION NETWORKS USING SIMULATION TECHNIDUES.(PRESENTED AT, NETWORK DESIGN SYMPOSIUM, EDINBURGH, (SCOTLAND), MARCH 18, 1974), (NATIONAL PHYSICAL LA8., TEODINGTON, (ENGLAND)),

2.1.3 ROUTING

COMPUTER AIDED DESIGN, VDL 6, ISSUE 3, JUL 74, P 171-175, 21 REFS (ANNCTATION UNDER 3.2.2)

PROSSER, REESE T., ROUTING PROCEDURES IN COMMUNICATIONS NETWORKS--PART 11: DIRECTORY PROCEOURES, (MASSACHUSETTS INST. OF TECH., LEXINGTON. LINCONN LAB.), IRE TRANSACTIONS ON COMMUNICATIONS SYSTEMS, VOL CS-10, ISSUE 4, DEC 62, P 329-335, B REFS

SEE ANNOTATION FOR PART 1 OF THIS 2-PART ARTICLE.

PROSSER, REESE T., ROUTING PROCEDURES IN COMMUNICATIONS NETWORK S--PART I: RANDOM PROCEDURES, (MASSACHUSETTS INST. OF TECH., LEXINGTON, LINCLUN LAB.), IRE TRANSACTIONS ON COMMUNICATIONS SYSTEMS, VOL CS-10, ISSUE 4, DEC 62, P 322-329, 6 REFS

THIS REPORT REPRESENTS A STUDY OF POSSIBLE ROUTING PROCEDURES IN A MILITARY COMMUNICATION NETWORK IN ORDER TO EVALUATE THE PROCEDURES IN TERMS OF FUTURE TACTICAL REQUIREMENTS. ESTIMATES OF THE AVERAGE TRAVERSE TIME OF EACH MESSAGE AND AVERAGE TRAFFIC FLOW THROUGH EACH NODE ARE DERIVED BY STATISTICAL METHODS. PART ONE IS DEVOTED TO ROUTING PROCEDURES INVOLVING RANDOM SELECTION AND PART TWO TO PROCEDURES DETERMINED BY UTRECTORY INFORMATION. THE ADVANTAGES OF THE DIRECTORY PROCEDURES ARE EXPRESSED QUANTITATIVELY BY RESULTS OBTAINED IN A LARGE-SCALE SIMULATION EXPERIMENT. THE PROCEDURES ARE STATED TO BE APPLICABLE TO A MILITARY COMMUNICATIONS SYSTEM SUITABLE FOR COMBAT UNITS OPERATING IN A HOSTILE ENVIRONMENT./

SCHWARTZ, MISCHA, CASTERET K. CHEUNG, THE GRADIENT PROJECTION ALGORITHM FOR MULTIPLE ROUTING IN MESSAGE-SWITCHED NETWORKS. (COLUMBIA UNIV., NEW YORK, DEPT. OF ELECTRICAL ENGINEERING, POLYTECHNIC INST. OF NEW YORK, BROOKLYN, OEPT. OF ELECTRICAL EMGINEERING AND ELECTROPHYSICS). FOURTH GATA COMMUNICATIONS SYMPOSIUM, NETWORK STRUCTURES IN AN EVOLVING OPERATIONAL ENVIRONMENT. (QUEBEC CITY, ICANAGA), OCTOBER 7-9, 1975). INSITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YORK, 1975, IEEE 75-CHIOODI-7-DATA, P 6-19--6-25, S REFS

VARIOUS ALGORITHMS HAVE BEEN PROPOSED FOR DETERMINING THE ROUTING PATHS DESIGNED TO MINIMIZE THE AVERAGE OVERALL Message time delay in Message-switched networks. This paper describes the application of the gradient projection algorithm to this produce.

EXECUTION TIMES FOR EXAMPLE NETWORKS ARE GIVEN. INCLUGED ARE 10-NODE ARPA-TYPE DISTRIBUTED NETWORKS WITH VARYING COMMODITIES,

SEGALL. ADRIAN, NEW ANALYTICAL MODELS FOR DYNAMIC ROUTING IN COMPUTER NETWORKS, (MASSACHUSETTS INST. OF TECH., CAMBRIDGE, DEPT. DF ELECTRICAL ENGINEERING AND COMPUTER SCIENCED, NATIONAL TELECOMMUNICATIONS CONFERENCE. CONFERENCE RECORD, VOLUME 2, (NEW DRLEANS, LA, DECEMBER 1-3, 1975). INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YORK, 1975, IEEE 75-CH-IOIS-7-CSC8, (LC S7-20724), P 27-1--27-5, 6 REFS

NEW MODELS FOR OPTIMAL DYNAMIC ROUTING IN A STORE-AND-FORWARD DATA COMMUNICATION NETWORK ARE DESCRIBED. THESE MODELS ELIMINATE THE NECESSITY FOR EXPLICITLY CALCULATING DELAYS AND OTHER OUALITIES. IN ADDITION THESE MODELS NATURALLY ACCOMDATE CLOSED-LOOP CONTROL THAT CHANGES THE ROUTING STRATEGY ACCOMPONENT OT THE NETWORK CONCESTION.

2.1.4 MODELLING

BALACHANDRAN, V., J. W. MCCREDIE, O., I. MIKHAIL, MODELS OF THE JOB ALLDCATION PROBLEM IN COMPUTER NETWORKS, (CARNEGIE-MELLON UNIV., PITTSBURGH, PA, DEPT. OF COMPUTER SCIENCE AND GRADUATE SCHOOL OF INCUSTRIAL ADMINISTRATION), CCMPCCN 73 - SEVENTH ANNUAL IEEE COMPUTER SOCIETY INTERNATIONAL COMFERENCE. DIGEST OF PAPERS, "COMPUTING NETWORKS FROM MINIS THROUGH MAXIS -- ARE THEY FOR REAL?", (SAN FRANCISCO, CA, FEBRUARY 27-28, MARCH I, 1973), INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS INC., NEW YORK, 1973, (LC 68-1628), P 211-214, 6 REFS IANNOTATION UNDER 2.1.11

BROWN, RICHARD D., MODEL FOR EXAMINING ROUTING DOCTRINE IN STORE-AND-FORWARD COMMUNICATION NETWORKS, AIR FORCE INST. OF TECH., WRIGHT-PATTERSON AFB, DH, SCHOOL OF SYSTEMS AND LOGISTICS, JUL 69, AFIT-SSL SLSR-11-69, (AD-863 83B), 79P, 63 REFS

A LINEAR PROGRAMMING MODEL IS FORMULATED FOR EXAMINING ROUTING DOCTRINE IN STORE-AND-FORWARD COMMUNICATIONS NARDARS. GENERAL CONCEPTS OF STORE-AND-FORWARD COMMUNICATIONS ARE DISCUSSED. VARIOUS DPTIONS OF CONSTRAINT, VARIABLES, DBJECIVE FUNCTIONS AND LIMITATIONS OF THE MODEL ARE PRESENTED.

BRYANT, SUSAN, PAN G. YATRAKIS, AN ECONOMIC MDDEL OF TWO-WAY BRDADBAND NETWORKS, (GTE LABS, INC., WALTHAM, MA), COMPCON 73 - SEVENTH ANNUAL IEEE COMPUTER SOCIETY INTERNATIONAL COMFERENCE, DIGEST OF PAPERS, 'COMPUTING NETWORKS FROM MINIS THROUGH MAXIS -- ARE THEY FOR REAL?', (SAN FRANCISCO, CA, FEBRUARY 27-28, MARCH 1, 1973), INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS INC., NEW YORK, 1973, (LC 68-1628), P 89-92

AN ECONOMIC SIMULATION MODEL OF TWO-WAY BRDADBAND AND INTEGRATED (BROADBAND/TELEPHDNE) LOCAL COMMUNICATION NETWORKS Is described in this paper. The model considers socio-economic and demographic projections of the community, design parameters, cost, technological advances and demand projections. (ALSO UNDER 1.6)

BURDET, CLAUDE-ALAIN, OSAMA MIKHAIL, MINIMAL COST NETWORK OF COMPUTER SYSTEMS UNDER ECDNOMIES-OF-SCALE, (CARNEGIE-MELLON UNIV., PITTSBURGH, PA), CCMPCGN 73 - SEVENTH ANNUAL IEEE COMPUTER SOCIETY INTERNATIONAL CONFERENCE, DIGEST OF PAPERS, "COMPUTING NETWORKS FROM MINIS THROUGH MAXIS -- ARE THEY FOR REAL?", (SAN FRANCISCO! CA, FEBRUARY 27-28, MARCH 1, 1973), INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS INC., NEW YORK, 1973, (LC 68-1628), PIS5-157, 6 REFS

THE EFFECTS OF ECONOMIES-OF-SCALE ON THE LOCATION AND ALLOCATION OF COMPUTING CAPACITY IN A COMPUTER NETWORK FOR A GEOGRAPHICALLY DISPERSED ORGANIZATION ARE STUDIED IN THIS PAPER. A STATIC MODEL AND A DYNAMIC MODEL ARE FORMULATED.

CADY, GEORGE M., GUNTHER LUTHER, TRADE-OFF STUDIES IN COMPUTER NETWORKS, (SYSTEM DEVELOPMENT CORP., SANTA MONICA, CA). COMPCON 73 - SEVENTH ANNUAL IEEE COMPUTER SOCIETY INTERNATIONAL COMFERENCE. DIGEST OF PAPERS, "COMPUTING NETWORKS FROM MINIS THROUGH MAXIS -- ARE THEY FOR REAL?", (SAN FRANCISCO, CA, FEBRUARY 27-28, MARCH I, 1973), INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS INC., NEW YORK, 1973, (LC 68-1628), P 147-150, 5 REFS

THE CACTOS (COMPUTATION AND COMMUNICATION TRADE-OFF STUDY) PROGRAM WAS ESTABLISHED TO DETERMINE HOW AN AGENCY COULD MEET FUTURE COMPUTATIONAL REQUIREMENTS. THE CACTOS MODEL WAS DEVELOPED TO ANALYTICALLY MODEL THE BEHAVIOR OF COMPUTER NETWORKS AND MELP ESTABLISH GUIDELINES FOR THE DESIGN OF COST EFFECTIVE COMPUTER NETWORKS. THE CACTOS MODEL AND SOME RESULTS WITH THE MODEL ARE DESCRIBED IN THIS PAPER. (ALSO UNDER 2.1.1)

CADY, GEDPGE N., COMPUTATION AND COMMUNICATION TRADE-OFF STUDIES: AN ANALYTICAL MODEL OF COMPUTER NETWORKS, (SYSTEM DEVELOPMENT COMP., SANTA MONICA, CA), 1572 MESCON TECHNICAL PAPERS, SESSION 7: COMPUTER NETWORKS, (PRESENTED AT, WESTERN ELECTRONIC SHOW AND CONVENTION, SEPTEMBER 19-22, 1972), 1972, P 7-2-1-7-2-12, 7 REFS

THIS PAPER DISCUSSES THE NEED FOP QUANTITATIVE MODELING OF COMPUTER NETWORKS AND PRESENTS ON APPROACH TO THE CONSTRUCTION OF AN ANALYTICAL MODEL OF COMPUTER NETWORK PERFORMANCE, THE AUTHOR SUGGESTS THAT THE MODEL WILL BE A USEFUL TCOL IN THE EVALUATION OF PROPOSEO CHANGES TO EXISTING NETWORKS, AS AN AID IN THE DESIGN OF NEW NETWORKS, AND IN UNDERSTANDING THE BEHAVIOR OF COMPUTER NETWORKS IN MORE GENERAL WAYS,

CASEY, R. G., ALLOCATION OF COPIES OF A FILE IN AN INFORMATION NETWORK, (INTERNATIONAL BUSINESS MACHINES CORP., SAN

JOSE, CAJ, JOSE, CAJ, AFIPS CONFERENCE, 1972 SPRING JDINT COMPUTER CONFERENCE, VOLUME 40, (ATLANTIC CITY, NJ, MAY 16-18, 1972), AFIPS PRESS, MONTVALE, NJ, 1972. AFIPS CONFERENCE PROCEEDINGS, (LC 5S-44701), P 617-625, 7 REFS IANNOTATICN UNDER 2.1.2)

CASEY, R. G., DESIGN OF TREE NETWORKS FOR DISTRIBUTED DATA. IINTERNATIONAL BUSINESS MACHINES CORP., SAN JOSE, CA). AFIPS COMPERENCE PROCEEDINGS, VOLUME 4-2, 1973. NATIONAL COMPUTER CONFERENCE AND EXPOSITION. (NEW YORK, NY, JUNE 4-8, 1973), AFIPS PRES, MONTVALE, NJ, 1973, AFIPS COMFERENCE PROCEEDINGS, LC SS-44701), P 251-257, IS REFS

A SIMPLIFIED MODEL WITH FEATURES SUCH AS DISCRETE CAPACITY ASSIGNMENT, ECONOMY OF SCALE, AND DISTINCTION BETWEEN QUERY AND UPDATE TRANSACTIONS HAS BEEN DEVELOPED FOR THE PROBLEM OF LOCATING INFORMATION RESOURCES AND CYDOSING A TOPOLOGY FOR A NETWORK OF DISTRIBUTED DATA FILES, A SAMPLE ALGORITHM HAS BEEN FORMULATED FOR THE CASE OF TREE DESIGN. A DESCRIPTION IS GIVEN OF THE MODEL, TREE DESIGN, NETWORK DESIGN PROCEDURE AND EXPERIMENTS WITH THE ALGORITHM.

BIBL IDGRAPHY

2.1.4 MODELLING

- CERF, V. G., D. D. COWAN, R. C. MULLIN, R. G. STANTON, TOPOLOGICAL DESIGN CONSIDERATIONS IN COMPUTER COMMUNICATION NETWORKS . COMPUTER COMMUNICATION NETWORKS. SELECTED PAPERS, (PRESENTED AT, UNIV. OF SUSSEX, BRIGHTON, (ENGLAND),), 1973, P 01-018,
- CHOU. WUSHOW. PATRICK V. MCGREGOR, A UNIFIED SIMULATION MODEL FOR COMMUNICATION PROCESSORS. (NETWORK ANALYSIS CORP.,
- GLEN COVE, NY). PROCEDINGS OF THE 1975 SYMPOSIUM-COMPUTER NETWORKS: TRENDS AND APPLICATIONS, (GAITHERSBURG, MD. JUNE 18, 1975). INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YORK, 1975, 75CH0973-BC, P 40-46, 18 REPS (ANNOTATION UNDER 2.1.1)
- WESLEY W., OPTIMAL FILE ALLOCATION IN A COMPUTER NETWORK, (CALIFORNIA, UNIV. OF, LOS ANGELES, DEPT. OF COMPUTER SCIENCE). ABRANSCH, NORMAN, FRANKLIN F, KUO, COMPUTER-COMMUNICATION NETWORKS, PRENTICE-HALL INC., ENGLEWOOD CLIFFS, NJ, 1973, Computer applications in electrical engineering series, (tks1d2,s.a283), P 82-94, 8 Refs

THE PROBLEM OF SHARED USAGE OF LARGE INFORMATION FILES VIA INTERCONNECTED COMPUTERS IS ADDRESSED. THE AUTH INTRODUCES A MODEL WHICH PROVIDES A COMMON GENOMINATOR FOR ANALYSIS AND COMPARISON OF VARIOUS PROPOSED INFORM SYSTEM CONFIGURATIONS, A TOOL TO STUDY THE SENSITIVITY OF VARIOUS PARAMETERS AND CONSTRAINTS TO THE OPERATING (OST, AND A METHOD FOR EVALUATING THE GROWTH POTENTIAL OF INFORMATION SYSTEMS, (ALSO UNDER 2.1.2) THE AUTHOR TION

NAIG, L. J., I. S. REED, OVERLAPPING TESSELLATED COMMUNICATIONS NETWORKS, RAND CORP., SANTA MONICA, CA, OEPT. OF Computer Sciences, Rand Corp., Santa Monica, Ca, OEPT. OF Electronics, 13 Jun 61, RC P-2359, (AD-676 259), 18P

THIS PAPER INVESTIGATES BANOWIOTH REQUIREMENTS FOR 'NOSAIC' NETWORKS. FOR THE MATHEMATICAL MODEL USED IT IS ASSUMED IT THE NODES PERFORM A SWITCHING FUNCTION AND THAT NO STORE-AND-FORWARD FACILITIES EXIST. (ALSO UNDER 2+1+2)

. SPAS. B., J. GOLOBERG, R. A. SHORT, H. S. STONE, INVESTIGATION OF PPOPAGATION-LIMITED COMPUTER NETWORKS, STANFORO RESEARCH INST., MENLO PARK, CA, JUL 65, SRI 4523, AF 19(628)-29D2, (AD-621 039), 203P, 3D REFS

THIS REPORT GETAILS THE MODELING TECHNIQUES USED FOR THE ANALYSIS, ORGANIZATION, AND DESIGN OF LOGICAL NETWORKS IN WHICH PROPAGATION OBLAYS ON THE LINES CONNECTING THE NODES OF THE NETWORK ARE APPRELIABLE COMPARED TO DELAYS WITHIN THE NODES. TECHNIQUES FOR EMBEDOING NCNPROPAGATION-LIMITED NETWORKS WITHIN PROPAGATION-LIMITED NETWORKS ARE GEVELOPED AND GRAPHICAL MODELS OF PROPAGATION-LIMITED NETWORKS ARE GESIGHED.

FERGUSON, MICHAEL J., A STUDY OF UNSLOTTED ALOHA WITH ARBITRARY MESSAGE LENGTHS, (HAWAII, UNIV, OF, HONOLULU, MCGILL

FRANK, HOWARO, I. T. FRISCH, W. CHOU, TOPPLOGICAL CONSIDERATIONS IN THE OESIGN OF THE ARPA COMPUTER NETWORK, (NETWORK AMALYSIS CORP., GLEN COVE, NY), AFIPS PROCEEDINGS. 197D SPRING JCINT COMPUTER CONFERENCE. VOLUME 36, (ATLANTIC CITY, NJ, MAY S-7, 1970), AFIPS PRESS, MONTVALE, NJ, 1970, AFIPS CONFERENCE PROCEEDINGS, (LC SS-44701), P SB1-SB7, 7 REFS

EASIC DISCUSSION OF THE MODELING THAT IS PERFORMED IN THE TOPOLOGICAL DESIGN OF THE ARPA NETWORK IS PRESENTED. THE GOLL OF THE MODELING THAT IS TENTED IN THE THE CONSIGNED ESTIMA OF THE ARAA RETWORK END-TO-END RESENTED. THE GOLL OF THE MODELING IST OM NIMIZE THE COSTIVIT TRANSMITTED WHILE SATISFYING NETWORK END-TO-END RESPONSE CRITERIA OF LESS THAN 0.2 SECOND FOR A SHORT MESSAGE UNDER PROJECTED NETWORK LOAD. OIFFICULTY IS ACKNOWLEDGED IN ESTIMATING TRAFFIC IN THE NETWORK AND REASONABLE ASSUMPTIONS ARE MADE. EMPHASIS IS PLACED ON THE EFFECT OF OIFFERENT EMPHASIS IS PLACED ON THE EFFECT OF DIFFERENT CAPACITY COMMUNICATION CIRCUITS, AS PRESENTLY TARIFFED, ON OVERALL COST/BIT OF THE NETWORK APPROPRIATEL COACO.

NANK, HOWARG, WUSHOW CHOU, TOPOLOGICAL OPTIMIZATION OF COMPUTER NETWORKS, (NETWORK ANALYSIS CORP., GLEN COVE, NY), PROCEEDINGS OF THE IEEE, VOL 60, ISSUE II, NOV 72, P 1385-1397, S9 REFS FRANK. HOWARD.

MODELING, ANALYSIS, DESIGN PROBLEMS AND METHODOLOGIES ARE DISCUSSED FOR CENTRALIZED AND DISTRIBUTED COMPUTER-COMMUNICATION NETWORKS. DBJECTIVES WERE TO SPECIFY THE LOCATION AND CAPACITY OF EACH COMMUNICATION LINK AND TO PROVIDE A LOW-COST NETWORK. SATISFYING CONSTRAINTS ON RESPONSE TIME, THROUGHPUT AND RELIABILITY. NETWORK MODELS. STRUCTURES AND APPRDACHES TO TOPOLOGICAL DESIGN ARE PRESENTED. (ALSO UNDER 2.1.2)

FRANK, HOMARO, OPTIMAL DESIGN OF CCMPUTER NETWORKS, (NETWORK ANALYSIS CORP., GLEN COVE, NY), Rustin, Randal, courant computer science symposium 3, computer networks, (november 3d-december 1, 1970), prentice-hall Inc., englewood cliffs, NJ, 1972, prentice-hall series in Automatic Computation, (LC 79-39373), p 167-183

THIS PAPER DISCUSSES PROCEDURES TO DEVELOP MINIMAL COST NETWORKS CAPABLE OF FULFILLING TRAFFIC AND MAXIMUM ALLOWABLE TIME DELAY REQUIREMENTS FOR BOTH CENTRALIZED AND DISTRIBUTED NETWORKS. THESE TECHNIDUES WERE APPLIED IN THE ARPANET DESIGN. (ALSO UNDER 2.1.2)

FRIEDMAN, T. D., A SYSTEM OF APL FUNCTIONS TO STUDY COMPUTER NETWORKS, (INTERNATIONAL BUSINESS MACHINES CORP., SAN JOST, CA, RESEARCH LAB.). AFIPS CONFERENCE PROCEEDINGS. VOLUME 42, 1973. NATIONAL COMPUTER CONFERENCE AND EXPOSITION. (NEW YORK, NY, JUNE 4-B. 1973). AFIPS PRESS. WONTVALE, NJ, 1973. AFIPS CONFERENCE PROCEEDINGS. (LC SS-4470]). P 141-148. 3 REFS (ANNOTATION UNDER 2.1.2)

JACKSON, P. E., CHARLES O. STUBBS. A STUDY OF MULTIACCESS COMPUTER COMMUNICATIONS. (BELL TELEPHONE LABS, INC., HOLMOEL, NJ). AFIPS PROCEEDINGS, 1969 SPRING JOINT COMPUTER CONFERENCE, VOLUME 34, (BOSTON, MA, MAY [4-16, 1969), AFIPS PRESS, MONTVALE, NJ, 1969, AFIPS CONFERENCE PROCEEDINGS, (LC SS-44701), P 491-S04, 13 REFS

A USEFUL MODEL OF MAN-COMPUTER DIALOGUE AND THE RESULTS OF DATA COLLECTED AND INTERPRETED RELATIVE TO THIS MODEL IS PRESENTED. A 'DATA STREAM MODEL' IS DEVELOPED TO INVESTIGATE HOLDING TIMES ACROSS DIFFERENT TYPES OF SYSTEMS IN RELATION TO USER/COMPUTER SEND TIMES. USER/COMPUTER IDLE TIMES. USER/COMPUTER OBLAY TIMES AND COMMUNICATION BURST CHARACTERISTICS. INTERESTING CONCLUSIONS ARE DRAWN FOR THE SYSTEMS STUDIED AND THE MODEL IS APPLICABLE IN GENERAL TO USER-COMPUTER INTERACTIONS. THE MODEL IS SOMEWHAT LIMITED. THERE IS NO TREATMENT OF FULL DUPLEX, FOR EXAMPLE, BUT THE MODEL STILL DESERVES CAREFUL ATTENTION. ALL DESIMERS OF INTERACTIVE REMOTE ACCESS SYSTEMS AND OF COMMUNICATIONS FACILITIES TO SUPPORT THEM SHOULD BE FAMILIAR WITH THIS MATERIAL.

- KLEINROCK, LEONARO, FOUAD TOBAGI, RANOOM ACCESS TECHNIOUES FOR DATA TRANSMISSION OVER PACKET-SWITCHED RADIO CHANNELS, (CALIFORNIA, UNIV. OF, LOS ANGELES), AFIPS CONFERENCE PROCEEDINGS. VOLUME 44, 1975. NATIONAL COMPUTER CONFERENCE, (ANAMEIM, CA, MAY 19-22, 1975), AFIPS PRESS, MONTVALE. NJ. 1975. (LC SS-447DI), P IB7-2DI, 17 REFS (ANNOTATION UNGER 2.1.1)
- KLEINROCK, LEONARO, SIMON S. LAM, PACKET-SWITCHING IN A SLOTTEO SATELLITE CHANNEL, (CALIFORNIA, UNIV. OF. LOS ANGELE AFIPS CONFERENCE PROCEEDINGS. VOLUME 42, 1973, NATIONAL COMPUTER CONFERENCE AND EXPOSITION, (NEW YORK, NY, JUNE 4-8, 1973), AFIPS PRESS, MONTVALE, NJ, 1973, AFIPS CONFERENCE FROCEEDINGS, ILC SS-44701), P 703-710, 13 REFS (CALIFORNIA: UNIV. OF. LOS ANGELES) (ANNOTATION UNDER 2.1)
- LIPNER, S. B., P. MELANSON, COMPUTATION OF MESSAGE OELAYS IN A COMMUNICATIONS NETWORK, MITRE CORP., BEDFORO, MA, ID OEC 71, MC WP-4DB3, AF F19(62B)-71-C-DD02, 17P, 2 REFS (ANNOTATION UNDER 2-1-2)
- MITRANI. I., NETWORKS OF UNRELIABLE COMPUTERS. (NEWCASTLE-UPON-TYNE, UNIV, OF, (ENGLAND)), Gelende, Erol, Robert mahl. Computer Architectures and networks. Modelling and evaluation, (August 12-14, 1974), American Elsevier publishing Co. Inc., New York, 1974, (LC 74-83728), P 359-374, 4 Refs

THIS PAPER IS CONCERNED WITH THE CONSTRUCTION AND ANALYSIS OF MODELS OF COMPUTER NETWORKS, TAKING INTO ACCOUNT THE FACT THAT AT SOME TIME IN THE LIFE OF EVERY COMPUTER SYSTEM THERE WILL BE PERIODS OF NON-OPERATION, HEAVILY LOADDO AND NON-HEAVILY LOADED NETWORKS ARE CONSIDERED FRAM TOINTS OF VIEW.

BIBLIDGRAPHY

2.1.4 MODELLING

ROBERTS, LAWRENCE G., DYNAMIC ALLOCATION OF SATELLITE CAPACITY THROUGH PACKET RESERVATION, (DEPARTMENT OF DEFENSE, ARLINGTON, VAI,

AFLINGIUM, VALA AFIPS CONFERENCE PROCEEDINGS, VOLUME 42, 1973, NATIONAL COMPUTER CONFERENCE AND EXPOSITION, (NEW YORK, NY, JUNE 4-8, 1973), AFIPS PRESS, MONTVALE, NJ, 1973, AFIPS CONFERENCE PROCEEDINGS, (LC SS-44701), P 711-716, 10 REFS

A RESERVATION TECHNIQUE IS PRESENTED WHICH TAKES FULL ADVANTAGE OF THE MULTI-ACCESS CAPABILITIES OF SATELLITES FOR OATA TRAFFIC. A MODEL OF OATA TRAFFIC IS DEVELOPED AND THE RESERVATION TECHNIQUE IS COMPARED WITH THE ALDHA SYSTEM TECHNIQUE. TIME DIVISION MULTIPLE-ACCESS, AND FREQUENCY DIVISION MULTIPLEXING. (ALSO UNDER 3.2.9)

SEGAL, M., A PREEMPTIVE PRIORITY MODEL WITH TWO CLASSES OF CUSTOMERS. (BELL TELEPHONE LABS. INC., HOLMDEL, NJI, JACKSCN, PETER E., PROCEEDINGS ACW/IEEE SECOND SYMPOSIUM ON PROBLEMS IN THE OPTIMIZATION OF DATA COMMUNICATION SYSTEMS, (PALD ALTO, CA. OCTOBER 20-22, 1971), 1971, IEEE CAT-71CS9-C, P 168-174, 3 REFS

A MODEL OF A TRUNK GROUP SERVING VOICE AND DATA COMMUNICATIONS IS ANALYZED. THE NODEL SERVICES TWO KINDS DE CUSTOMERS: PRIMARY CUSTOMERS WHO RECEIVE PREEMPTIVE PRIDRITY AND SECONDARY CUSTOMERS WHO ARE SERVED DALY WHEN THE FACILITY IS NOT FULLY OCCUPIED BY PRIMARY CUSTOMERS. EXAMPLES ARE GIVEN OF THE EFFECT DF QUEUING DE SECONDARY CUSTOMERS.

SMITH, J. W., DN DISTRIBUTED COMMUNICATIONS: III. DETERMINATION DF PATH-LENGTHS IN A DISTRIBUTED NETWORK, RAND CORP., SANTA MONICA. CA, AUG 64, RC RM-3578-PR, AF 49(638)-700, (AD-444 833), 91P, 1 REFS

THIS IS & OFTAILED DESCRIPTION OF MODELING & DISTRIBUTED MESSAGE-SWITCHED NETWORK UNDER HEAVY LOADING TO DETERMINE MESSAGE PATHS.

SPRAGINS, JOHN D., ANALYSIS OF LOOP TRANSMISSION SYSTEMS. (INTERNATIONAL BUSINESS MACHINES CORP., RALEIGH, NC), JACKSCN, PETER E., PROCEEDINGS, ACM/IEEE ECOND SYMPOSIUM ON PROBLEMS IN THE OPTIMIZATION OF DATA COMMUNICATION SYSTEMS, (FALO ALTO, CA, OCTOBER 20-22, 1971), 1971, IEEE CAT-71CSO-C, P 175-182, 7 REFS

AN ANALYTICAL MODEL OF A RING TRANSMISSION SYSTEM WITH RANDOM SLOT ASS'IGNMENT AND FIXED SLOT SIZE IS DEVELOPED. IT IS ASSUMED THAT ALL TRANSMISSION DRIGINATES FROM OR TERMINATES AT A SINGLE CENTRAL PROCESSOR. THUS ESTABLISHING A PRIORITY RELATIVE TO POSITION. THAT IS, UPSTREAM TERMINALS HAVE PRIDRITY DVER DOWNSTREAM, ANALYSIS FOR MULTIPLE PROCESSORS IS NOT COVERED.

TREHAN, FANVIR K., PROJECTED RESPONSE CHARACTERISTICS OF THE WWMCCS INTERCOMPUTER NETWORK, MITRE CORP., WASHINGTON, DC. B MAY 72, MC WP-984S, AF F19628-71-C-0DD2, S4P, S REFS

THIS PAPER PRESENTS AN ANALYTIC COMPUTER MODEL FOR ANALYZING AND ESTIMATING RESPONSE CHARACTERISTICS OF AN INTERCOMPUTER NETWORK UTLLIZING STORE-AND-FORMARD COMMUNICATIONS. THE NODEL ANALYZES THE NETWORK ON A LINK-BY-LINK BASIS, COMPUTING EXPECTED OELAW FROM SUCH FACTORS AS BANDWIDTH, AVERAGE WESSAGE LEWENTH AND MESSAGE URBAND DISTRIBUTION (LINE LOADINGI, SUCH VARIABLES AS THOSE INTRODUCED BY ADAPTIVE ROUTING ALGORITHMS ARE NOT CONSIDERED, THE MODEL IS APPLIED TO DNE POSSIBLE DESIGN OF AN INTERCOMPUTER NETWORK TO DERIVE APPROXIMATE ANTICIPATED MESSAGE RESPONSE CHARACTERISTICS, PARAMETRIC SENSITIVITY ANALYSIS IS PEHFORMED, AND A GENERALIZED COMPUTER MODEL (INCLUDING A FORTRAN PROGRAM LISTING) FOR STOCHASTIC NETWORK ANALYSIS IS DESCRIBED. (ALSO UNDER 2:1:21

YAGED, BERNARO, JR., ECDNOMIES OF SCALE, NETWORKS, AND NETWORK CDST ELASTICITY. (BELL TELEPHONE LABS, INC., HOLMDEL,

NJ;, Hall, ARTHUR D., III, DIGEST OF THE CONFERENCE ON THE ECONDMIES OF SCALE IN TODAY'S TELECOMMUNICATIONS SYSTEMS, (WASHINGTON, DC, SEPTEMBER 13, 1973], INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YORK, 1973, IEEE 73-CHO-B3D-D-SCALE, P 26

THIS PAPER ATTEMPTS TO LAY A FOUNDATION FOR EXAMINING NETWORK ECONOMY OF SCALE EFFECTS. MODELS ARE PRESENTED TO ILLUSTRATE HOW TO MEASURE NETWORK SCALE EFFECTS, FOR BOTH STATIC AND DYNAMIC STUDIES. (ALSO UNDER 2.1.1. S.3]

ZEIGLER, JACK F., LEONARD KLEINROCK, NODAL GLDCKING IN LARGE NETWORKS, (CALIFORNIA, UNIV, OF, LOS ANGELES, OEPT, OF COMPUTER SCIENCEI. BLACKER, MARRY L., IEEE INTERNATIONAL CONFERENCE ON COMMUNICATIONS, VOLUME 7, (MDNTREAL, (CANADA), JUNE 14-16, 1971). INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YORK, 1971, IEEE CAT-71C28-COM, (LC 64-232261, P 39-9--29-15, 10 REFS

A MODEL IS PRESENTED TO ANALYZE STORE-AND-FORWARD COMMUNICATION NETWORKS IN WHICH THE NODES HAVE A FINITE STORAGE CAPACITY FOR MESSAGES. A NODE IS BLOCKED WHEN ITS STORAGE IS FILLED; OTHERWISE IT IS FREE. ARPANET TERMINOLOGY IS USED IN THIS VERY PRACTICAL AND USEFUL ANALYSIS. THE THEORETICAL CONCLUSIONS ARE SUBSTANTIATED BY COMPUTER-BASED SIMULATION./ (ALSO UNDER 2.1.2)

2.2 MEASUREMENT

ABRAMS, MARSHALL D++ GEORGE E. LINOAMODO, THOMAS N+ PYKE, JR+, MEASUPING AND HODELLING MAN-MACHINE INTERACTION, (NATIONAL BOREAU OF STANOAROS, WASHINGTON, OC, INST+ FOR COMPUTER SCIENCES AND TECHNOLOGY), FIRST ANNUAL SIGME SYMPOSIUM ON MEASUFING AND EVALUATION, 1973; P 136-142, 11 PEFS

THE OPERATION OF A NETWORK MEASUREMENT MACHINE (NNMI DEVELOPED AS A TOOL FOR THE MEASUREMENT OF COMPUTER SERVICE AS SEEN BY THE USER, AND THE ANALYSIS OF THE DATA OBTAINED ARE BRIEFLY DISCUSSED. THE DBJECTIVES OF THE MEASUREMENT DF COMPUTER SERVICE ARE DEFINED AND A SET OF MODELS AND IMPORTANT MEASUREMENTS ARE DEVELOPED. (ALSO UNDER 2.3)

ABRAMS, MARSHALL 0., A NEW APPROACH TO PERFORMANCE EVALUATION OF COMPUTER NETWORKS, (NATIONAL BUREAU OF STANDARDS, WASHINGTON, DC. INST. FOR COMPUTER SCIENCES AND TECHNOLOGY), PROCEEDINGS DF THE 1974 SYMPOSIUM, COMPUTER NETWORKS: TRENDS AND APPLICATIONS, (GAITHERSBURG, ND, MAY 23, 1974), INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YORK. 1974, 74CH083S-9C, P 15-20, 9 REFS

THIS PAPER DESCRIBES A *STINULUS-ACKNOWLEDGEMENT-RESPONSE* MODEL CONCEPTUALIZED TO DESCRIBE THE MAN-COMPUTER INTERACTION WHICH TAKES PLACE IN AN INTERACTIVE CONVERSATIONAL COMPUTING ENVIRONMENT, ALSO PRESENTED IS A DESCRIPTION OF A MINICOMPUTER-BASED DATA ACOUSITION SYSTEM CALLED THE NETWORK MEASUREMENT MACHINE (NMM) WHICH HAS BEEN DEVELOPED TO MEASURE THE DELIVERY OF COMPUTER SERVICES TO ANY USER. DUTPUTS FROM THE NMM ARE PROCESSED BY DATA ANALYSIS POUTINES WHICH PROVIDE STATISICAL SUMMARIES OF WORKLOAD, MESSONGE, AND COMMUNICATIONS UTILIZATION ANALYSIS DUES SUBSETS OF A CONVERSATION, SUCH AS USE OF SPECIFIC SOFTWARE SERVICES, A SAMPLE APPLICATION OF THE NMM IS DISCUSSED.

ABRAMS, MARSHALL 0., CONSUMER-ORIENTED MEASUPEMENT OF COMPUTEP NETWORK PERFOPMANCE, (NATIONAL BUREAU OF STANDAROS, WASHINGTON, OC, INST. FOR COMPUTER SCIENCES AND TECHNOLOGY), IEEE 1974 NATIONAL TELECOMMUNICATIONS CONFERENCE, (SAN DIEGO, CA, DECEMBER 2-4, 1974), INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YORK, 1974, IEEE P-74CH0902-7-CSCB, (LC S7-20724), P 843-844, 7 REFS

THIS SHORT PAPER LOENTIFIES SOME MEASURES OF INTERACTIVE SYSTEM PERFORMANCE AND INDICATES HOW THEY ARE BEING INVESTIGATED IN A PROJECT AT THE NATIONAL BUREAU OF STANDARDS. FOR A MORE COMPLETE ACCOUNT OF THIS WORK SEE 'THE SERVICE CONCEPT APPLIED TO COMPUTER NETWORKS' BY M. O. ABRAMS AND IRA W. COTTON AND ABRAMS' 'A NEW APPRDACH TO PERFORMANCE EVALUATION OF COMPUTER NETWORKS.

ABRAMS, MARSHALL 0., IRA W. COTTON, THE SERVICE CONCEPT APPLIED TO COMPUTER NETWORKS. NATIONAL BUREAU OF STANDARDS, WASHINGTON, OC, INST. FOR COMPUTER SCIENCES AND TECHNOLOGY, AUG 75, NBS TN-BB0, (LC 75-600056), 38P, 19 REFS

THE NETWORK MEASUREMENT SYSTEM (NMS) REPRESENTS THE INFLEMENTATION OF A NEW APPROACH TO THE PERFORMANCE MEASUREMENT AND EVALUATION OF COMPUTER NETWORK SYSTEMS AND SERVICES. THIS TECHNICAL NOTE INTRODUCES THE SERVICE CONCEPT AND OTHER BACKGROUND INFORMATION NECESSARY TO UNDERSTAND THE NEED FOR AND USE OF THE NMS. THE NOTE ALSO INCLUDES A DISCUSSION OF APPLICATIONS FOR THE NMS.

BARBER, O. L. A., SCME OBSERVATIONS ON STORE-AND-FORWARD AND CIRCUIT-SWITCHED DATA NETWORKS, NATIONAL PHYSICAL LAB., TEODINGTON, (ENGLAND), DIV. OF COMPUTER SCIENCE, JAN 70, NPL-DCS COM-SCI-T.M.-36, 26P

HERE IS A VERY INTERESTING COMPARISON OF MESSAGE AND CIRCUIT SWITCHING CONCERNED PRIMARILY WITH TECHNICAL MEASURES OF PERFORMANCE+ BASEO ON A SET OF REASONABLE ASSUMPTIONS, THE REPORT SHOWS MESSAGE-SWITCHING PREFERABLE

BIBLIDGRAPHY

2.2 MEASUREMENT

FOR SHORT MESSAGES AND CIRCUIT-SWITCHING WHEN LONG MESSAGES ARE PREODMINANT, UNFORTUNATELY, IT IS NOT UNTIL THE END OF THE REPORT THAT THE SEMANTIC DIFFICULTIES IN DIFFERENTIATING BETWEEN MESSAGE AND CIRCUIT SWITCHING ARE Introduced.

BELL, THOMAS E., COMPUTER PERFORMANCE VARIABILITY, (RANO CORP., SANTA MONICA, CA), AFIPS CONFERENCE PROCEEDINGS, VOLUME 43, 1974, NATIONAL COMPUTER CONFERENCE. (CHICAGO, IL, MAY 6-10, 1974), AFIPS PRESS, MONTVALE, NJ, 1974, AFIPS CONFERENCE PROCEEDINGS, (LC SS-44701), P 761-766, IZ REFS

THE AUTHOR'S MAJOR PCINT, VARIABILITY OF COMPUTER PERFORMANCE, IS A REALITY, ELAPSED TIME (BOTH IN BATCH AND ON-LINE ENVIRONMENTS), I/D ACTIVITY AND PROCESSOR ACTIVITY ARE ALL TESTED IN DESCRIBED EXPERIMENTS AND FOUND TO BE SUBJECT TO DEGREES OF VARIABILITY. THE MORALE: MAKE SURE PERFORMANCE EVALUATION IS DONE IN AN ENVIRONMENT REFLECTIVE OF WHAT THE OPERATION ENVIRONMENT WILL BE.

BELL, THOMAS E., HUMAN PERCEPTION OF TELECOMMUNICATIONS RESPONSIVENESS. (TRW SYSTEMS GROUP, REDONOD BEACH, CA), NATIONAL TELECOMMUNICATIONS CONFERENCE. CONFERENCE RECORD, VOLUME 2, (NEW ORLEANS, LA. DECEMBER 1-3, 1975), INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YORK, 1975, IEEE 75-CH-10IS-7-CSCB, (LC S7-20724), P 44-IB--44-20, 6 REFS (ANDTATION UNCER 2.3)

CERF, VINTON G., WILLIAM E. NAVLOR, STORAGE CONSIDERATIONS IN STORE-AND-FORWARD MESSAGE SWITCHING, (CALIFORNIA, UNIV. DF, LOS ANGELES). 1972 WESCON TECHNICAL PAPERS. SESSION 7: COMPUTER NETWORKS, (PRESENTED AT, WESTERN ELECTRONIC SMOW AND CONVENTION, SEPTEMBER 19-22, 1972), 1972, P 7-3-I-7-3-B, S REFS (ANNOTATION UNCER 2.1.42)

COLE, GERALD 0., COMPUTER NETWORK MEASUREMENTS: TECHNIQUES AND EXPERIMENTS, CALIFORNIA, UNIV, OF, LOS ANGELES, COMPUTER SYSTEMS MODELING AND ANALYSIS GROUP, OCT 71, CU-CSMAG ENG-7165, OAMC IS-69-C-0285, (AD-739 344), 350P, 89 REFS

THIS THESIS PROVIDES A COMPREMENSIVE DESCRIPTION OF THE MEASUREMENT PROGRAM BEING CONDUCTED AT UCLA FOR THE ARPA NETWORK, THE INTERNAL NETWORK MECHANISMS FOR 'INSTRUMENTATION' ARE DESCRIBED, EMPIRICAL MEASUREMENT DATA ARE PRESENTED. AND THE RELATIONSHIP OF THE MEASUREMENT EFFORT TO MODEL BUILDING AND THE ANALYTIC APPROACH IS EXPLAINED. FOR AN OVERVIEW OF THE MATERIAL IN THIS FEPORT SEE COLE'S ARTICLE 'PERFORMANCE MEASUREMENTS ON THE ARPA COMPUTER NETWORK' IN CATEGORY 2-2.

COLE, GERALD 0., PERFORMANCE MEASUREMENTS ON THE ARPA COMPUTER NETWORK, (CALIFORNIA, UNIV, OF, LOS ANGELES, OEPT. OF COMPUTER SCIENCE). JACKSCN, PETER E., PROCEEDINGS. ACM/IEEE SECOND SYMPOSIUM ON PROBLEMS IN THE OPTIMIZATION OF DATA COMMUNICATION SYSTEMS. (PALD ALTO, CA. OCTOBER 20-22, 1971), 1971, IEEE CAT-7ICS9-C, P 39-45, 3 REFS

THE ACTIVITIES OF THE ARPA NETWORK MEASUREMENT CENTER AT UCLA ARE DISCUSSED. THE AVAILABLE TOOLS ARE DESCRIBED WITH SAMPLE COMPUTER PRINTOUTS TO ILLUSTRATE THEIR APPLICATION. THE RESULTS OF SOME EXPERIMENTS WHICH ARE ALSO PRESENTED GIVE A GOOD OFEL FOR THE VALUE OF THE MEASUREMENT PROGRAM IN PROVIDING INSIGHT INTO NETWORK PERFORMANCE. THIS ARTICLE IS A GOOD OVERVIEW; FOR AN EXHAUSTIVE TREATMENT SEE COLE'S THESIS, "COMPUTER NETWORK MEASUREMENTS: TECHNIQUES AND EXPERIMENTS' IN CATEGORY 2.2.

COTTON, IFA W., COST-DENEFIT ANALYSIS OF INTERACTIVE SYSTEMS, (NATIONAL BUREAU OF STANDAROS, WASHINGTON, OC, INST, FOR COMPUTER SCIENCES AND TECHNOLOGY), THE SECOND JERUSALEM CONFERENCE ON INFORMATION TECHNOLOGY, (JERUSALEM, (ISRAEL), JULY 29-AUSGUST 1, 1974), 1974, P 720-746, 20 REFS (ANDTATION UNDER S.B)

DATA TRAFFIC MEASUREMENTS GUIDE IMPROVE MENTS TO RESOURCE-SHARING NETWORK, COMMUNICATIONS EQUIPMENT AND SYSTEMS DESIGN, JUN 72, P 2-4

THIS DESCRIPTION OF THE UCLA NETWORK MEASUREMENT CENTER IN THE ARPA NETWORK WAS APPARENTLY BASED ON AN INTERVIEW WITH GERALD COLE. THE ARTICLE CONSISTS OF A BRIEF DESCRIPTION OF THE CAPABILITIES OF THE CENTER, FOLLOWED BY A FAIRLY DETAILED EXAMPLE WHICH ILLUSTRATES THE SCOPE OF THE MEASUREMENT FACILITIES. FOR MORE DETAILED INFORMATION, REFER TO OTHER ARTICLES BY COLE HIMSELF. IN PARTICULAR, "COMPUTER NETWORK MEASUREMENTS: TECHNIOVES AND EXPERIMENTS"

FULLER, S. M., R. J., SWAN, W. A. WULF, THE INSTRUMENTATION OF C.MMP, A MULTI-(MINI) PROCESSOR, (CARNEGIE-MELLON UNIV., DITTSBURCH, PA), COMPCCN 73 - SEVENTH ANNUAL LEEE COMPUTER SOCIETY INTERNATIONAL COMFERENCE, OIGEST OF PAPERS, *COMPUTING NETWORKS FROM MINIS THROUGH MAXIS -- ARE THEY FOR REAL?*, (SAN FRANCISCO, CA, FEBRUARY 27-28, MARCH I, 1973), INSTITUTE OF ELECTRICAL ANO ELECTRONIC ENGINEERS INC., NEW YORK, 1973, (LC 68-1628), P 173-176, 9 REFS

A HAROWARE MONITOR TO IMPLEMENT A MEASUREMENT FACILITY FOR CARNEGIE-MELLON UNIVERSITY'S MULTI-MINIPROCESSOR. C.MMP IS DESCRIBED. SOFTWARE CONTROL OF THE HAROWARE MONITOR MAKES POSSIBLE AN INTEGRATED HAROWARE/SOFTWARE PERFORMANCE EVALUATION. A GENERAL DISCUSSION OF HAROWARE MONITORS IS PRESENTED BEFORE GIVING SPECIFIC DETAILS OF THE C.MMP HAROWARE MONITOR AND ITS APPLICATIONS.

FULTZ, GARY L., LEONARO KLEINROCK, ADAPTIVE ROUTING TECHNIOUES FOR STORE-AND-FORWARO COMPUTER-COMMUNICATION NETWORKS, (CALIFORNIA, UNIV. OF, LOS ANGELES, OEPT. OF COMPUTER SCIENCE), BLACKER, HARRY L., IEEE INTERNATIONAL CONFERENCE ON COMMUNICATIONS, VOLUME 7, (MONTREAL, (CANADA), JUNE 14-16, 1971), INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC+, NEW YORK, 1971, IEEE CAT-7IC28-COM, (LC 64-23226), P 39-1-39-B, IT REFS (ANNOTATION UNDER 2,1,3)

GRUBE, CANA S., DATA COMMUNICATIONS SYSTEM THROUGHPUT PERFORMANCE USING HIGH SPEED TERMINALS ON THE DIAL TELEPHONE NETWORK, NATIONAL BUREAU OF STANDARDS, WASHINGTON, DC, INST, FOR COMPUTER SCIENCES AND TECHNOLOGY, MAY 73, NBS TN-779, 339, 7 REFS

DATA THROUGHPUT OF HIGH SPEED DATA TERMINALS USING THE DIAL TELEPHONE NETWORK IS CALCULATED FOR SIGNALING RATES OF 1200 TO 4800 BITS PER SECOND USING THE ANSI X3:28-1971 CONTROL PROCEDURES, THE THROUGHPUT IS MEASURED IN TERMS OF THE PROPOSED ANSI CRITERIA TRANSPER RATE FOR INFORMATION BITS (RTRID) DESCRIBED IN X353/60. THE THROUGHPUT LALCULATIONS ARE SHOWN GRAPHICALLY WITH THE AS A FUNCTION OF BLOCK LENGTH, ERROR RATES OF THE TELEPHONE CONNECTION, SIGNALING RATE AND TELEPHONE LINE DELAYS, ERROR RATES ARE BASED ON A PUBLISHED SURVEY INVOLVING SEVERAL HUNDRED TELEPHONE CONNECTIONS TO GEOGRAPHICALLY DISTRIBUTED PARTS OF THE UNITED STATES, (ALSO UNDER 3.2.1)

GRUBB, CANA S., IRA W. COTTON, CRITERIA FOR THE PERFORMANCE EVALUATION OF OATA COMMUNICATIONS SERVICES FOR COMPUTER NETWORKS, NATIONAL BUREAU OF STANDAROS, WASHINGTON, DC. COMPUTER SYSTEMS ENGINEERING OIV., SEP 75, NBS TN-882, 36P, 37 OFFEC

IN GENERAL, WHEN TELECOMMUNICATIONS SERVICES ARE USED AS A MEANS OF INTERCHANGING INFORMATION BETWEEN INFORMATION PROCESSING SYSTEMS, OR BETWEEN TERMINALS AND SYSTEMS, A NUMBER OF PARAMETERS DETERMINE HOW WELL THAT INTERCHANGE IS PERFORMED. THIS REPORT EXAMINES THE FOLLOWING CATARACTERISTICS OF TELECOMMUNICATIONS SERVICES: TRANSPER RATE, AVAILABILITY, CHANNEL ESTABLISHMENT TIME, NETWORK DELAY, LINE TURNARDUND DELAY, TRANSPARENCY, AND SECURITY. THESE TERMS ARE ALL DEFINED AND THEIR SIGNIFICANCE DISCUSSED. THE EFFECTS OF THESE FACTORS ON DATA COMMUNICATION NETWORKS ARE ILLUSTRATED. (ALSO UNDER 3.2.0)

INTERFACE MESSAGE PROCESSORS FOR THE ARPA COMPUTER NETWORK, DUARTERLY TECHNICAL REPORT ND, 16, BOLT, BERANEK AND NEWMAN INC., CAMBRIDGE, MA, JAN 73, 1 DCT-31 DEC 72, BBN R-2499, DAHC 15-69-C-0179, 4IP, 7 REFS

THIS DUARTERLY TECHNICAL REPORT DESCRIBES THE WORK ODNE ON THE ARPA NETWORK OURING THE LAST DUARTER OF 1972, IMPS AND TIPS INSTALLED, SOFTWARE DEVELOPMENT CHANGES TO THE NETWORK CONTROL CENTER, WORK ON THE HIGH SPEED MODULAR IMP AND PUBLICATIONS AND CONFERENCE PARTICIPATION ARE ALL DISCUSSED. THE RESULTS OF A STUDY OF THE THEDRETICAL AND MEASURED THROUGHPUT OF THE ARPA NETWORK ARE PRESENTED. (ALSD UNDER 3,1,2, 3,1,1)

- INTERFACE MESSAGE PROCESSORS FOR THE ARPA COMPUTER NETWORK, DUARTERLY TECHNICAL REPORT ND, 2. BOLT, BERANEK AND NEWMAN INC., CAMBRIDGE, MA, JUL 69, I APR-30 JUN 69, BBN R-IB37, BBN OTR-2, DAHC IS-69-0179, ISP (ANNOTATION UNCER 3.1.1)
- KIMBLETON, STEPMEN R., MODELING CONSIDERATIONS IN COMPUTER COMMUNICATION RESOURCE CONTROL, (PRESENTED AT THE, EIGHTH MAWAII INTERNATIONAL CONFERENCE ON SYSTEM SCIENCES, MONOLULU, JANUARY 7-9, 1975), SOUTHERN CALIFORNIA, UNIV, OF, MARINA

2.2 MEASUREMENT

DEL REY. INFORMATION SCIENCES INST., JAN 75, ARPA DAHC+15-72-C-0308, ONR N00014-67-A-0181-0036, (AD-A008 238), 13P, 16

THE BASIC THESIS OF THIS PAPER IS THAT EFFECTIVE UTILIZATION OF MISSION DRIENTED NETWORKS REQUIRES CODPOINATION THE BASIC THESTS OF THIS FARER IS THAT LECENTS CHILDRAND THIS LOT OFFICIAL MARKET RECURRENCE CONDUCTOR THAT THE BASE OF THE THORAGE CONDUCTOR THAT THE BASE OF THE STATES AND THAT THEIR ACHEVERENT RECURRES A MODEL-BASEO APPROACH. SOME OF THE IMPLICATIONS OF THIS THESIS AND CONTENCE ONNO ITS FEASIBILITY IS DISCUSSED.

KING. R. G., SYSTEM TESTING TECHNIQUES FCR COMPUTER NETWORKS, (JOHNS HOPKINS UNIV,, SILVER SPRING, MD, APPLIED PHYSICS LAB.).

LAD.), FGCCEEDINGS OF THE 1974 SYMRDSIUM, COMPUTER NETWORKS: TRENDS AND APPLICATIONS, (GAITHERSBURG, MD, MAY 23, 1974), INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YORK, 1974, 74CH0835-9C, P 25-29, 2 REFS

AUTHOR DESERVES THAT THE TREND IN THE FIELD OF DIGITAL COMPUTERS IS TOWARDS THE DEVELOPMENT DVER THE NEXT THE AUTHOR DBSERVES THAT THE TREND IN THE FIELD OF DIGITAL COMPUTERS IS TOWARDS THE DEVELOPMENT OVER THE NEXT S-10 YEARS OF COMPLEX SYSTEMS CONSISTING OF NETWORKS OF BOTH LARGE AND SMALL PROCESSORS, OPERATING ASYNCHROMOUSY IN PARALLEL. THIS PAPER ADDRESSES THE PROBLEM OF HOW TO TEST SUCH SYSTEMS AND WHAT TECHNIQUES MAY BE USED TO ENHANCE THE TESTING EFFECTIVENESS. INITIAL SYSTEM DEDUGGING OF BOTH MARDWARE AND SOFTWARE IS DISCUSSED IN SOME DETAIL, SOME OF THE TECHNIQUES PRESENTED ARE APPLICABLE TO THE DETECTION AND ISQLATION OF HARDWARE FAILURES OURING OPERATION AND TO THE HANDLING OF ERFORTS IN ORERATIONAL DATA TRANSMISSION. THE GENERAL CONCLUSION IS THAT GOOD SYSTEM DESIGN WILL ALLOW THE USE OF SYSTEM TEST MECHANISMS TO PRODUCE IMPROVED SYSTEM PERFORMANCE AND RELIABILITY.

- KLEINROCK, LEDNARD, HOLGER OPOERBECK, THROUGHPUT IN THE ARPANET PROTOCOLS AND MEASUREMENT. (CALIFORNIA, UNIV, OF, LOS ANGELES, DEPT, DE COMPUTER SCIENCE, TELENET CORP., WASHINGTON, DC), FOURTE DATA COMMUNICATIONS SYMPOSIUM, NETWOPK STRUCTURES IN AN EVOLVING OPERATIONAL ENVIRONMENT, (QUEBEC CITY, (CANADA), OCTDBER 7-9, 1975), INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YDRK, 1975, IEEE 75-CH10:01-7-DATA, P 6-1--6-11, 13 REFS (AANOTATICN UNDER 2.1.3)
- EINROCK, LEONARD, WILLIAM E, NAYLDR, ON MEASURED BEHAVIOR OF THE APPA NETWORK, (CALIFORNIA, UNIV, DF, LDS ANGELES), Afirs conference proceedings, volume 43, 1974, National computer conference, (chicago, IL, May 6-10, 1974), Afips press, Montvale, NJ, 1974, Afirs conference proceedings, (LC SS-4970), p 767-780, IB refer KLEINROCK. LEONARO.

THE VARIOUS TOOLS USED BY THE NETWORK MEASUREMENT CENTER (NMC) OF THE ARPANET ARE BRIEFLY DISCUSSED, FOLLOWED BY A Cription of an experiment conducted every TWD Months on The Network and the results of that experiment. The concl THE CONCLUSIONS DESCRIPTION OF RE MOST INTERESTING AND IMPACT CERTAIN DESIGN PARAMETERS FOR THE NETWORK.

KLEINROCK, LEONARD, COMPUTER NETWORK RESEARCH, CALIFORNIA, UNIV. OF, LOS ANGELES, DEPT, OF COMPUTER SCIENCE, 31 DEC 71, JUL-31 DEC 71, ARPA DAHC-IS+69-C-0285, (AD-739 705), IISP, 79 REFS

ACTIVITIES AT UCLA IN NETWOPK MODELING AND MEASUREMENT ARE SUMMARIZED, THE RESULTS IN GRAPHICAL FORM FOR ARPA NETWOPK Loading experiments are given, the carabilities of present and planned measurement tools for the arpa network are Described, the appendixes contain five good related papers including "performance measurements on the arpa computer NETWORK .

RLEINROCK, LEONARO, PERFORMANCE MODELS AND MEASUREMENTS OF THE ARRA COMPUTER NETWORK, (CALIFORNIA, UNIV. OF, LOS ANGELES, DEET, DF COMPUTER SCIENCE), COMPUTER COMMUNICATION NETWORKS, SELECTED PAPERS, (PRESENTED AT, UNIV. DF SUSSEX, BRIGHTON, (ENGLAND),), 1973, P C1-C25, 20 DEES

THE AUTHOR SUMMARIZES SOME OF THE PERFORMANCE EVALUATION METHODS WHICH HAVE BEEN USEFUL IN THE DESIGN OF THE ARPA NETWORK. ANALYTICAL, SIMULATION AND MEASUREMENT RESULTS WHICH HAVE ENABLED PREDICTION AND EVALUATION OF SYSTEM PERFORMANCE ARE DESCRIBED.

MAMRAK, SANDRA ANN, COMPARATIVE RESPONSE TIMES OF TIME-SHARING SYSTEMS ON THE ARPA NETWORK, ILLINDIS, UNIV, OF, URBANA, DERT, OF COMPUTER SCIENCE, MAY 75, IU R-75-722, ARPA DAHC-04-72-C-0001, 141P, 30 REFS (ANDTATION UNDER 2.1.0)

MENDICINO, SAMUEL F., GEDRGE G. SUTHERLAND, PERFORMANCE MEASUREMENTS IN LLL DCTOPUS COMPUTER NETWORK, (CALIFORNIA, UNIV, OF, LIVERMORE, LAWRENCE LIVERMORE LAB.). COMPON 73 - SEVENTH ANNUAL IEEE COMPUTER SOCIETY INTERNATIONAL CONFERENCE, DIGEST OF RAPERS, *COMPUTING NETWORKS FROM MINIS THROUGH MAXIS -- ARE THEY FOR REAL?*, (SAN FRANCISCO, CA, FEBRUARY 27-28, MARCH I, 1973). INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINERERS INC., NEX YORK, 1973, (LC 60-1628), P 109-112, 2 REFS

AS AN AID TO NETWORK PEPFORMANCE MEASUREMENT, DATA WERE COLLECTED ON SIGNIFICANT NETWORK PARAMETERS ON THE OCTOPUS COMPUTER NETWORK. THE STATISTICS DESCRIBED IN THIS PAPER INCLUDE THE FOLLDWING: TOTAL NUMBER DE USEP LOGONS, SAMPLE USER LOAD, SYSTEM MESSAGES (TO AND FROM THE SYSTEM), MESSAGES BETWEEN THE USER AND THE EXECUTING PROGRAMS, FILE TRANSPORT TRAFFIC, CPU UTILIZATION, CPU I/C BOUND TIME, AND DISK HEAD MOVES. VERY LITTLE EVALUATION IS GIVEN BASED ON THESE STATISTICS.

MORGAN, DAVID E., DR., WALTER BANKS, DALE P. GODOSPEED, RICHAPO KOLANKO, A COMPUTER NETWOPK MONITORING SYSTEM, (WATERLDG, UNIV, DF. ONTARID, (CANADA), COMPUTER COMMUNICATIONS NETWORKS GROUP), IEEE TRANSACTIONS ON SOFTWARE ENGINEERING, VOL SE-1, ISSUE 3, SEP 75, P 290-311, 36 REPS

THE IMPLEMENTORS OF THE CNMS RECOGNIZED FROM THE STAPT THAT THE USERS OF SYSTEM MONITORS ARE MANAGERS OF SYSTEMS, NOT MARDWARE SOFTWARE OR STATISTICS EXPERTS. THUS THEIR CONCEPT WAS TO DEVELOP AN EASY TO USE TOOL: NOT A SET OF DISRAPATE TOOLS, OUT ONE TOOL RESPONSIBLE FOR MONITORING AN EMTIRE SYSTEM. THIS IS A WELL WRITTEN ARTICLE, AND THE CONTENT IS MOST INTERESTING.

DRGAN, D. E., R. C. KOLANKO, MODELS TO AID USER MEASUREMENT DE A COMPUTER NETWORK. (WATERLDD, UNIV. DE, DNTARID, (CANADA), COMPUTER COMMUNICATIONS NETWORKS GROUP), NATIONAL TELECOMMUNICATIONS CONFERENCE, CONFERENCE RECORD, VOLUME 2, (NEW ORLEANS, LA, OECEMBER 1-3, 1975), INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YORK, 1975, IEEE 7S-CH-10IS-7-CSCB, (LC S7-20724), P 44-1-44-5, 10 REES MDRGAN, D, E.,

DESCRIBED IS THE APPROACH TAKEN BY THE UNIVERSITY OF WATERLOD TO THE PROBLEM OF DETERMINING THE TOOLS AND TECHNIQUES NEEDED TO ALLOW A USER TO OBSERVE AND EVALUATE A COMPUTER NETWORK OR SYSTEM. THE GENERAL APPROACH TAKEN WAS TO DEFINE THE REAL SYSTEM IN TERMS OF LAYERS OF ABSTRACT MACHINES, TO DETERMINE THE MEASURES NEEDED IN TERMS OF THESE MACHINES, TO MAKE THE MEASUREMENTS ON THE REAL SYSTEM. AND THEN TO INTERPRET THEM IN TERMS OF THE ABSTRACT MACHINES.

W. BANKS. W, COLVIN, D, SUTTON, A PERFORMANCE MEASUREMENT SYSTEM FOR COMPUTER NETWORKS. (WATERLOD, MDRGAN . D. E. .

REGAN, D. E., W. DANKS, W. CLEVIN, U. SUITUN, A FERTURBANCE HEASURENEN, SISTER ON COMPTEN DE LE MARGUARE AND ARCHITECTURE, NOSENFELD, JACK L., INFORMATION PROCESSING 74, PPDCEEDINGS OF IFIP CONGRESS 74, I. COMPUTER HAROWARE AND ARCHITECTURE, (STDCKHOLM, (SWEDEN), AUGUST S-10, 1974), AMERICAN ELSEVIER PUBLISHING CD, INC., NEW YORK, 1974, P 29-33, 33 REFS

THE AUTHORS PROVIDE GDDD BACKGROUND INFORMATION CONCERNING THE PEPFORMANCE MEASUREMENT OF NETWORKS OF COMPUTERS, BEFORE DESCRIBING THE UNIVERSITY OF WATERLOV'S MCNITORING SYSTEM, ANDNG THE GENERAL INFORMATION GIVEN ARE DEFINITIONS OF NETWORKING AND MEASUREMENT TERMINOLOGIES, AND DESCRIPTIONS OF CURRENTLY AVAILABLE TOOLS TO MEASURE COMMUTER SYSTEMS AND THE EFFORT NEEDED TO EXPAND THESE TO NETWORK MEASUREMENT. THE REMOTE-COMPUTER-CONTROLLED HARDWARE MONITOR (RCHM) IS A MODULAR SYSTEM. THIS MONITORING SYSTEM INCORPORATES HARDWARE A MEASUREMENT LANGUAGE FOR MONITOR CONTROL, DATA ANALYSIS SOFTWARE, A NETWORK TRAFFIC GENERATOR, AND MEASUREMENT SOFTWARE RESIDENT IN THE SYSTEM UNDER TEST.

- O'NEIL, D. R., ERROR CONTROL FOR DIGITAL DATA TRANSMISSION DVER TELEPHONE NETWORKS, MITRE COPP., BEDFDRO, MA, MAY 65, MC TM-04113, AF [9(628)-2390, (AF-ESD TR-65-67, AD-616 678), 48P, 27 REFS (ANNCTATION UNDER 3.2.1)
- PRICE, W. L., OR., G. W. COWIN, SIMULATION STUDIES OF THE EFFECT OF LINK BREAKOOWN ON OATA COMMUNICATION NETWORK PERFOPMANCE, NATIONAL PHYSICAL LAB., TEODINGTON, (ENGLANO), DIV. OF COMPUTER SCIENCE, FEB 75, NPL R-COM-SCI-77 PERFORMANCE, NATIONAL PHY (ANNOTATION UNDER 2.1.1)

RUBIN, MARTIN L., BEVERLY HUNTER, MARILYN KNETSCH, EVALUATION OF THE EXPERIMENTAL CAI NETWORK (1973-1975) OF THE LISTER HILL NATIONAL CENTER FOR BIOMEOICAL COMMUNICATIONS, NATIONAL LIBRARY OF MEDICINE, HUMAN RESOURCES RESEARCH DRGANIZATION (HUMRRO), ALEXANDRIA, VA, EASTERN DIV. JAN 75, HUMRRO FR-ED-75-1, NOI-LM-4-4725, (LHNGE 75-03, PB-229 358), 77P

THE NATIONAL LIERAPY OF MEDICINE ESTABLISHED AN EXPERIMENTAL BIOMEDICAL CAI NETWORK IN 1973 TO TEST THE FEASIBILITY OF RING CAI LEARNING MATERIALS THROUGH A NATIONAL COMPUTER NETWORK. THIS RERDRT DESCRIBES THE EVALUATION OF THAT SHARING CAI LEARNING MATERIALS THROUGH A NATIONAL COMPUTER NETWORK .

2.2 MEASUREMENT

- EXPERIMENT. THE EVALUATION IS DESIGNED TO ASSIST DECISION MAKERS IN PLANNING FUTURE MECHANISM FOR DISTRIBUTING BIDMEDICAL CAL, ALT-CUGA THE RESULTS MAY BE OF INTEREST TO DECISION MAKERS IN OTHER FIELDS AS WELL. (ALSO UNDER 4.2.3) EXPERIMENT.
- STILLMAN, RDNA E., CR., BELKIS LECNG-HONG, SOFTWARE TESTING FOR NETWORK SERVICES, NATIONAL BUREAU OF STANDARDS, WASHINGTON, DC, INST. FOR COMPUTER SCIENCES AND TECHNOLOGY, JUL 7S, NBS TN-874, NSF AG-330, (LC 7S-600046), 40P, 9 REFS (ANNOTATION UNDER 3,4.5)
- WATKINS, SHIRLEY W, MARSHALL O. ABRAMS, INTERPRETATION OF CATA IN THE NETWORK MEASUREMENT SYSTEM, NATIONAL BUREAU OF TANOADOC WASHINGTON, OC, INST. FOR COMPUTER SCIENCES AND TECHNOLOGY. MAR 76. NBS TN-897. 42P, 15 REF

THE DATA ANALYSIS PACKAGE (DAP) FOR THE NETWORK MEASUREMENT SYSTEM IS DISCUSSED. THE RATIONALE FOR AND DESCRIPTION OF THE MCDEL USED BY THE DAP TO INTERPRET THE OATA COLLECTED BY THE NETWORK MEASUREMENT MACHINE, STATISTICAL MEASURES, AND T PRESENTATION FORM OF ANALYZED CATA ARE AMONG THE TOPICS DISCUSSED. FOR A COMPLETE DESCRIPTION OF THE NETWORK MEASUREMENT SYSTEM, OF WHICH DAP IS A PART, SEE ABPAMS AND COTTON, 'THE SERVICE CONCEPT APPLIED TO COMPUTER NETWORKS.* AND THE

#000, 0AVID C., MEASUREMENT OF USER TPAFFIC CHARACTERISTICS ON ARPANET, (MITRE CORP., MCLEAN, VA), FOURTH DATA COMMUNICATIONS SYMPOSIUM, NETWORK STRUCTURES IN AN EVOLVING OPERATIONAL ENVIRONMENT, (GUEBEC CITY, (CANADA), October 7-9, 1957), INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YORK, 1975, IEEE 75-CH10001-7-DATA, P 0-2. 1 REES

THIS VERY SHORT PAPER REPORTS SOME OFTAILED MEASUREMENTS OF THE PACKETS GENERATED ON THE ARPANET BY AN INDIVIDUAL USER ENGAGED IN COMMON APPLICATIONS WITH VARIOUS HOSTS. BOTH THE TRAFFIC CHARACTERISTICS AND TRANSFER RATES ARE REPORTED FOR FILE TRANSFERS BETWEEN HOSTS.

2.3 USER CONSIDERATIONS

- ABRAMS, MARSHALL D., GEORGE E. LINDAMODD. THOMAS N. PYKE, JR., MEASURING AND MODELLING MAN-MACHINE INTERACTION. (NATIONAL BUREAU OF STANDARDS, WASHINGTON, OC. INST. FOR COMPUTER SCIENCES AND TECHNOLOGY), FIRST ANNUAL SIGME SYMPOSIUM ON MEASURING AND EVALUATION, 1973, P 136-142, 11 REFS (ANNOTATION UNDER 2.2)
- COMPONE AUGURE H+, AUVANCED INTELLIGENT TERMINALS AS A USER'S NETWORK INTERFACE, (PAND CORP., SANTA MONICA, CA), COMPON FALL '75, ELEVENTH IEEE COMPUTER SOCIETY CONFERENCE, HOW TO MAKE COMPUTERS EASTER TO USE, DIGEST OF PAPERS, (WASHINGTON, OC, SEPTEMBER 9-11, 1975), INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YORK, 1975, IEE 7SCH0988-6C, P 180-182, 9 REFS ANDERSON, ROBERT H., ADVANCED INTELLIGENT TERMINALS AS A USER'S NETWORK INTERFACE. YORK, 1975, IEEE

ONE POSSIBLE SOLUTION TO THE PROBLEM OF ASSISTING THE USER IN ACCESSING NETWORK RESOURCES IS DISCUSSED. AN OVERVIEW OF The Types of services which might be provided by an intelligent terminal in the near future is presented. Also, a research program currently underway at fand aired of to veloping a frontotype system is described.

BELL, THOMAS E., HUMAN PERCEPTION OF TELECOMMUNICATIONS RESPONSIVENESS. (TRW SYSTEMS GROUP, REDONDO BEACH, CA), NATIONAL TELECOMMUNICATIONS COMFERENCE. CONFERENCE RECORD. VOLUME 2, (NEW ORLEANS, LA. DECEMBER 1-3, 1975), INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YORK, 1975, IEEE 75-CH-IDIS-7-CSE0, (LC S7-20724), P A&-IB--A4-20, 6 REFS

THIS PAPER CONTAINS A HIGHLY INTERESTING DESCRIPTION OF INFORMAL STUDIES THAT ATTEMPTED TO FIND METRICS TO CORRELATE WITH USER'S PERCEPTIONS OF HOW WELL A COMPUTER SYSTEM OR NETWORK WAS RESPONDING, WHILE ALLOWING THAT GLIND ACCEPTANCE OF AVERAGE RESPONSE THE AS AN APPROPRIATE METRIC IS PROBABLY BETTER THAN IMPLICIT ASSUMPTIONS ABOUT CONSTANT RESPONSE TIME, THE POINT IS WELL MADE THAT WITH THE MAGNITUDE OF RESOURCES INVESTED IN THE DEVELOPMENT AND OPERATION OF TELECOMMUNICATIONS SYSTEMS, WE SHOULD NOT PROCEED ON THE ASSUMPTION THAT SIMPLE METRICS ARE ADEQUATE FOR ANALYSIS, DESIGN, PURCHASE, OR OPERATION OF THESE COMPLEX SYSTEMS. (ALSO UNDER 2+2)

BENDIT, JOHN W., ERIKA GRAF-WEBSTER, EVOLUTION OF NETWORK USER SERVICES--THE NETWORK RESOURCE MANAGER. (MITRE CORP., MCLEAN: VA);

MCLEAN, VA), PROCEEDINGS OF THE 1574 SYMPOSIUM, COMPUTER NETWORKS: TRENDS AND APPLICATIONS, (GAITHERSBURG, MO, MAY 23, 1974), INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YORK, 1974, 74CHOB3S-9C, P 21-24, 6 REFS

THIS PAPER DESCRIBES A NETWORK RESOURCE MANAGER CALLED THE REX SYSTEM WHICH WAS DEVELOPED TO ENABLE A TERMINAL USER ON THE ARAN AREMORY TO OBTAIN INFORMATION ARANGER CALLED THE NEAS SISTEM WITH MAD USELVED TO CHARGE A LITHOUGH USER ON THE ARAN AREMORY TO OBTAIN INFORMATION ABOUT NETWORK RESOURCES USING AN INTERACTIVE OURFY LANGUAGE, ALTHOUGH COMPLETE SUCCESS WAS NOT ACHIEVED WITH THE REX SYSTEM OUE TO DIFFICULTIES ARISING FROM THE DIFFERENCES IN OPERATING SYSTEMS AND HAROWARE ARCHITECTURE WITHIN THE NETWORK, THE PAPER ODES PROVIDE A VALID EXAMPLE OF ONE METHOD FOSTISFYING THE USER'S NEED FOR A CONVENIENT MEANS OF LEARNING ABOUT, COMPARING, SELECTING AND USING RESOURCES AT A RENOTE HOST ON A NETWORK. (ALSO UNDER 3.4.4)

- CHUPIN, JEAN CLAUDE, CONTROL CONCEPTS OF A LOGICAL NETWORK MACHINE FOR DATA BANKS, (I.M.A.G., GRENDBLE, (FRANCE), CII SCIENTFIC CENTER'S, ARERICAN ELSEVIER PUBLISHING CO. INC., NEW YORK, 1974, P 201-298, 7 REFS (ANNOTATION UNDER 3.4-3)
- DAVID M. YATES, HUMAN FACTORS IN INTERACTIVE TELEPROCESSING SYSTEMS. EAVIES. DONALO W ... CHRISTOPHER R. EVANS, VIES, LCHALD WALL, CHAISTUPPER RE EVANS, UARID W, THES, HUMAN FACTORS IN INTERACTIVE TELEFAULES IN STSTEMS, (NATIONAL PHYSICAL LAG, TEOINGTON, (ENGLADO)), THE SECOND INTERNATIONAL CONFERENCE ON COMPUTER COMMUNICATION, COMPUTER COMMUNICATION TODAY AND UP TO 1985, (STOCKHOLM, (SWEDEN), AUGUST 12-14, 1974), INTERNATIONAL COUNCIL OF ICCC, 1974, P 491-496, S REFS

SYSTEMS SHOULD BE DESIGNED SO THAT THE NEW AND EXPERIENCED USERS CAN FEEL AT EASE. SEVERAL BALANCES ARE GIVEN WHICH MUST BE STRUCK IN DROER TO ACHIEVE THIS GOAL. THE AUTHORS PROPOSE THAT SECURITY SHOULD BE UNDBTRUSIVE IN THAT A USER SP BE UNAMARE OF ITS EXISTENCE UNLESS HE ATTEMPTS A FORBIOCEN ACTION. SHOULO

- CAVIS, RUTH M., MAN-MACHINE COMMUNICATION, (AOVANCED RESEARCH PROJECTS AGENCY, WASHINGTON, OC). CAUDRA, CARLOS A., ANNUAL REVIEW OF INFORMATION SCIENCE AND TECHNOLOGY. VOLUME 1. WILEY (JOHN) AND SONS, NEW YORK, 1966, ADI ANNUAL REVIEW SERIES, (LC 66-25096), P 221-254, 99 REFS (ANNOTATICN UNDER I.2)
- CICKEY, SHANE, COMPUTER NETWORKS CAN BE FRIENOLY, (HEWLETT-PACKARD CO., PALO ALTO, CA), COMPCON FALL '75. ELEVENTH IEEE COMPUTER SOCIETY CONFERENCE, HOW TO MAKE COMPUTERS EASIER TO USE. DIGEST OF PAPERS, (WASHINGTON, DC, SEPTEMBER 9-11, 1975), INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC.. NEW YORK, 1975, IEEE 75CH0988-6C, P 129-132, 2 REFS

THE AUTHOR DEFINES SYSTEM FRIENDLINESS' IN TERMS OF EASE OF SYSTEM USE AND SYSTEM ADAPTABILITY TO TECHNOLOGICAL ADVANCES. AS AN EXAMPLE OF A FRIENDLY' SYSTEM HE REFERENCES PROGRAM-TO-PROGRAM COMMUNICATION IN THE HEWLETT-PACKARD 9700 OISTIBUTED SYSTEM.

FIFE, OENNIS W., PRIMARY ISSUES IN USER NEEOS, (NATIONAL BUREAU OF STANDARDS, WASHINGTON, OC, INST, FOR COMPUTER

CENTER AND TECHNOLOGY, Greenberger, Martin, Julis Arundesky, james L. McKenney, William F. Massy, Networks for research and education: sharing Computer and Information Resources Nationwide, Mit Press, Cambridge, Ma. 1973, P.89-95, 3 REFs

THE INSTITUTE FOR COMPUTER SCIENCES AND TECHNOLOGY OF THE NATIONAL BUREAU OF STANDARDS (NBS) IS ASSISTING THE NATIONAL SCIENCE FOUNDATION (NSF) IN TECHNICAL PLANNING TO DELINEATE MAJOR APPROACHES TOWARD THE EVENTUAL DEVELOPMENT OF A NATIONAL SCIENCE COMPUTER NETWORK. NBS'S PRIMARY EFFORTS FOCUS ON NETWORK MANAGEMENT REQUIREMENTS, APPLICATION CRIENTAFOR COMMUNICATIONS TECHNOLOGY, AND USER CHARACTERISTICS. (ALSO UNDER 5.7. 1.1)

GREENBERGER, MARTIN, NUMERICAL DATA BASES, STATISTICAL ANALYSIS, AND MODELING, REPORT OF WORKSHOP 2, (JOHNS HOPKINS

UNIV.). GREENBERGER, MARTIN, JULIUS ARONDFSKY, JAMES L. MCKENNEY, WILLIAM F. MASSY, NETWORKS FOR RESEARCH AND EDUCATION: SHARING COMPUTER AND INFORMATION RESOURCES NATIONWIDE, MIT PRESS, CAMBRIDGE, MA, 1973, P 115-130, 3 REFS (ARNOTATICN UNDER 4.2.9)

GREENBERGER, MARTIN, USER ORGANIZATIONS, REPORT OF WORKSMOP 7. (JOHNS HOPKINS UNIV.). GREENBERGER, MARTIN, JULIUS ARONDFSKY, JAMES L. MCKENNEY, WILLIAM F. MASSY, NETWORKS FOR RESEARCH AND EDUCATION: SHARING

BIBLIOGRAPHY

2.3 USER CONSIDERATIONS

PUTER AND INFORMATION RESOURCES NATIONWIDE, MIT PRESS, CAMBRIDGE, MA. 1973, P 273-281

THE WORKSHOP WAS CONCEPNED WITH USERS OF COMPUTER NETWORKS. AMONG THE ISSUES ADDRESSED WERE: ADVANTAGES AND DISADVANTAGES OF USER GROUPS; IMPACT OF COMPUTER NETWORKS ON USER GROUPS; POLICIES NEEDED TO PROTECT THE INTERESTS OF THE USER; AND STEPS TO INITIATE USER PARTICIPATION. OF THE USER: AND (ALSO UNDER 5.7)

KIMBLETON, STEPHEN R., NETWORK PERFORMANCE, USER SATISFACTION, AND DATA BASE ACCESS, (USC-INFORMATION SCIENCES INST.,

MARINA DE REY, CA); MARINA DE REY, CA); NATIONAL TELECOMMUNICATIONS CONFERENCE, CONFERENCE RECORO, VOLUME 2, (NEW ORLEANS, LA, DECEMBER I-3, 1975); INSTITUTE OF RELETRICIA AND ELECTRONICS ENGINEERS INC., NEW YORK, 1975, IEEE 75-CH-1015-7-CSCB, (LC 57-20724); P 44-12-44-17, 15 REFS

TO PROVIDE A DUANTITATIVE FOUNDATION FOR RESOLVING USER CONCERNS ABOUT THE QUALITY OF PERFORMANCE BEING DELIVERED BY A COMPUTER NETWORK, IT IS NECESSARY TO DEVELOP POLICIES FOR DETERMINING THE OPTIMAL LOCATION OF INFORMATION FROM THE USER'S VIEWPOINT, THE STATED OBJECTIVE OF THIS HIGHLY RELEVANT PAPER IS TO DEVELOP LOCALLY OPTIMAL BLOCK ASSIGNMENT POLICIES FOR A COMPUTER COMMUNICATION NETWORK. (ALSO UNDER 3.2.2)

- RECUS, RICHARD 5., NETWORK ACCESS FOP THE INFORMATION RETRIEVAL APPLICATION, (MASSACHUSETTS INST, OF TECH., CAMBRIDGE ELECTRONIC SYSTEMS LAB.). 1975 IEEE INTERCCN COMPERENCE RECORO, (NEW YORK, APRIL B-10, 1975), INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YORX, 1975, P 25-4-1--25-4-7, 12 REFS (ANNOTATION UNDER 3,4.4) MARCUS, RICHARD S., NETWORK ACCESS FOP THE INFORMATION RETRIEVAL APPLICATION, (MASSACHUSETTS INST. OF TECH., CAMBRIDGE.
- MASSY, WILLIAM F., INSTITUTIONAL RELATIONS, REPORT OF WORKSHOP 6, (STANFORO UNIV., CA). GREENBERGEP, MARTIN, JULIUS ARONOFSKY, JAMES L. MCKENNEY, WILLIAM F. MASSY, NETWORKS FOR RESEARCH AND EOUCATION: SHARING COMPUTER AND INFORMATION RESOURCES NATIONWIDE, MIT PRESS, CAMBRIOGE, MA, 1973, P 245-262, 1 REFS (ANNOTATION UNDER 4.1.2)
- MASSY, WILLIAM F., TEXT PROCESSING AND INFORMATION RETRIEVAL. REPORT OF WORKSHOP 4. (STANFORD UNIV., CA), GPEENBERGER, MARTIN. JULIUS ARONDFSKY, JAMES L. MCKENNEY, WILLIAM F. MASSY, NETWORKS FOR RESEARCH AND EDUCATION: SKARING COMPUTER AND INFORMATION RESOURCES NATIONNIDE. MIT PRESS. CAMBRIDGE, MA. 1973, P. 165-177 (ANNOTATION UNDER 4.1)
- XENNEY, JAMES L,. INTERACTIVE ON-LINE RESPONSIVE SYSTEMS. REPORT OF WORKSHOP 3. (HARVARD UNIV., CAMBRIDGE. MA. GRACUATE SCHOOL OF BUSINESS ADMINISTRATION). GREENBERGER. MARTIN, JULIUS ARONOFSXY. JAMES L. MCKENNEY. WILLIAM F. MASSY, NETWORKS FOR RESEARCH AND EDUCATION: SHARING COMPUTER AND INFORMATION RESOURCES NATIONWIDE, MIT PRESS, CAMBRIDGE, MA. 1973, P 143-160

THE WORKSHOF CONSIDERED ISSUES RELATED TO COMPUTER DESIGN AND USER CHARACTERISTICS FROM THE POINT OF VIEW OF THE RESEARCH WORKER REDUIRING ACCESS TO COMPUTEP SYSTEMS WITH A HIGH DEGREE OF RELIABILITY AND A RICH VARIETY OF SOFTWAPE. THE WORKSHOP IDENTIFIED FIVE CLASSES OF USERS AND SPECIFIED THE NEEDS AND SYSTEM REDUIREMENTS FOR EACH CLASS. THESE CLASSIFICATIONS ARE: (1) PROBLEM SOLVING, (2) DESIGN ACTIVITIES, (3) SIMULATION AND MODELING, (4) DATA ACQUISITION AND PROCESS CONTROL, AND (5) INSTRUCTIONAL SYSTEMS.

RESPONSE TIME IN MAN-COMPUTER CONVERSATIONAL TRANSACTIONS, (INTERNATIONAL BUSINESS MACHINES CORP., MILLER. ROBERT B ... POUGHXEEPSIE, NY), AFIPS PROCEEDINGS, 1968 FALL JOINT COMPUTER CONFERENCE, VCLUME 33, PART I, (SAN FRANCISCO, CA, DECEMBER 9-11, 1968), THOMPSON BOOK CO., WASHINGTON, OC, 1968, AFIPS CONFERENCE PROCEEDINGS, (LC 55-44701), P 267-277, S REFS

INTERACTIVE MAN/COMPUTER SYSTEMS HAVE GENERALLY BEEN DESIGNED WITH ONLY INTUITIVELY DERIVED SPECIFICATIONS FOR

INTERACTIVE MAN/COMPUTER SYSTEMS HAVE GENERALLY BEEN DESIGNED WITH ONLY INTUITIVELY DERIVED SPECIFICATIONS FOR RESPONSE CRITERIA. IN THIS PAPER THE AUTHOR, A BEHAVIDRAL SCIENTIST, ATTEMPTS TO LIST AND DEFINE THE DIFFERENT CLASSES OF OPERATOR ACTION AND PURPOSE AT INTERACTIVE TERMINALS. THE IMPLICATION IS THAT DIFFERENT ACTIONS AND PURPOSES HAVE DIFFERENT ACCEPTABLE RESPONSE CRITERIA. THE 16 CATEGORIES OF ACTIVITIES WHICH THE AUTHOR IDENTIFIED CAN ACTUALLY BE CHARACTERIZED BY MORE GENERAL CLASSES OF ACTIVITY. ONE SUCH CLASS IS THE INPUT OF DATA TO THE SYSTEM, AS BY XEYBOARD OR LIGHT-PEN. AN IMMEDIATE RESPONSE OF NO LCHOEF THAN 0.1 TO 0.2 SECONDS IS DEMANDED FOR THIS CLASS. A SECOND CLASS IS CHARACTERIZED BY A USER ENGAGED IN INTENSE INTERACTION REDUINED THAT THE CHAIN OF THOUGHT NOT BE BROXEN. A FINAL CLASS INCLUDES THDSE ACTIVITIES WHICH COMPLETE A SUBJECTIVE (SUBJTASK OR (SUBJFURPOSE. MORE EXTENDED DELAYS (UP TO IS SECONDS OR MORE) MAY BE PERMITTED FOLLOWING SUCH AN ACTIVITY COMPLETION. OR 'CLOSUFC', THAN IN THE PROCESS OF DOSAR MORE) MAY BE PERMITTED FOLLOWING SUCH AN ACTIVITY COMPLETION. OR 'CLOSUFC', THAN IN THE PROCESS OF DOSAR MORE) MAY BE PERMITTED FOLLOWING SUCH AN ACTIVITY COMPLETION, OR 'CLOSUFC', THAN IN THE PROCESS OF DOSAR MORE', MAN AR DE PERMITTED FOLLOWING SUCH AN ACTIVITY COMPLETION. OR 'CLOSUFC', THAN IN THE PROCESS OF DOSAR MORE', MAN' BE PERMIT

- NEUMANN: A: J.; A BASIS FOR STANDAROIZATION OF USER-TERMINAL PRCTOCOLS FOR COMPUTER NETWORK ACCESS, NATIONAL BUREAU OF Standards, Washington, oc, systems and software div., jul 75, NBS TN-B77, (LC 75-600052), 29P, S REFS (Annotation under 5.5)
- NEUMANN, A. J., NETWORK USER INFORMATION SUPPORT, NATIONAL BUREAU OF STANDARDS, WASHINGTON, OC, SYSTEMS AND SOFTWARE OIV., OEC 73, NBS TN-B02, NSF AG-350, 27P, IA REFS (ANNOTATION UNDER 5,7)
- NEUMANN, A. J., USER PROCEOURES STANDARDIZATION FOR NETWORK ACCESS, NATIONAL BUREAU OF STANDARDS, WASHINGTON, OC, Systems development DIV., Oct 73, NBS TN-799, NSF AG-350, 43P, 10 REFS (ANNOTATION UNDER S.S)
- NIELSEN, NORMAN R., NETWORK COMPUTING. (STANFORD UNIV., CA. WELLSCO DATA CORP.). COMPUTER AND INFORMATICN RESOURCES NATIONWIDE, MIT PRESS, CAMBRIDGE, MA. 1973, P.64-73, I REFS (ANNOTATION UNDER 1.2)
- OWENS, JERRY L., A USER'S VIEW OF THE LAWRENCE LIVERMORE LABORATORY'S COMPUTER NETWORKS, (LAWRENCE LIVERMORE LAB., VENS, JERY L., A USER'S VIEW OF THE CAMPLIE ELLENDED EL ELLENDED E
- PICKENS, JOHN R., COMPUTER NETWORKS FROM THE USER'S POINT OF VIEW, (CALIFORNIA, UNIV, DF, SANTA BARBARA, DEPT, DF ICKENS, JOHN R., COMPUTER NEIWURDS FROM THE VOLATS FOUL ST. S. T.C., ELECTRICAL ENGINEERING), COMPCON 73 - SEVENTH ANNUAL IEEE COMPUTER SOCIETY INTERNATIONAL CONFERENCE, DIGEST OF PAPERS. *COMPUTING NETWORKS FROM MINIS THROUGH MAXIS - ARE THEY FOR REAL?*, (SAN FRANCISCO, CAL FEBRUARY 27-20, MARCH I, 1973), INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS INC., NEW YORX, 1973, (LC 60-1620), P 71-74, 7 REFS

IN AN EFFORT TO STUDY USER REACTION TO COMPUTER NETWORKS AN EXPERIMENT WAS PERFORMED WITH A GROUP OF GRADUATE STUDENTS ACCESSING THE ARPANET, THE ENCOUNTERS OF THE STUDENTS WERE USED TO EVALUATE USER SATISFACTION, BASED O THESE EXPERIENCES A NUMBER OF CRITERIA WERE FORMULATED FOR EVALUATION OF NETWORK RESOURSES, THESE ARE PRESENTED ALCNG WITH SUGGESTED REFINEMENTS TO IMPROVE USER SATISFACTION, (ALSO UNDER 5.7) BASED ON

YKE, THOMAS N., JR., ROBERT P. BLANC, NETWORKING CHALLENGES: THE USER'S VIEWPOINT, (NATIONAL BUREAU OF STANDAROS, WASHINGTON, DC, INST. FOR COMPUTER SCIENCE AND TECHNOLOGY), FACTS AND FUTURES, WHAT'S HAPPENING NOW IN COMPUTING FOR HIGHER EDUCATION. PROCEEDINGS OF THE EDUCOM FALL COMPERENCE, (PRINCETON, NJ, OCTOBER 9-II, 1973), INTERUNIVERSITY COMMUNICATIONS COUNCIL INC. (EDUCOM), PRINCETON, NJ, 1974, (LC 74-79222), P 2II-217 DYK F.

ALTHOUGH COMPUTER NETWORKS OFFER MANY BENEFITS TO THEIR USERS, MANY PROBLEM AREAS ARE INVOLVED IN THE EFFECTIVE UTILIZATION OF THESE NETWORKS. THREE SUCH PROBLEM CLASSES ARE IDENTIFIED: NETWORK SERVICE SELECTION, OOCUMENTATI FRAGMENTED NETWORK SERVICE, SUGGESTIONS FOR RESOLVING THESE PROBLEMS ARE GIVEN. (ALSO UNDER S.7) NETWORK SERVICE SELECTION. ODCUMENTATION. AND

PYXE, THOMAS N., JR., NETWORK ACCESS TECHNIQUES: SOME RECENT DEVELOPMENTS. (NATIONAL BUREAU OF STANDAROS, WASHINGTON, OC.INST.FOR COMPUTER SCIENCES AND TECHNOLOGY), PROCEEDINGS OF THE THIRD TEXAS CONFERENCE ON COMPUTING SYSTEMS, (AUSTIN, TX, NOVEMBER 7-8, 1974), IEEE COMPUTER SOCIETY, LONG BEACH, CA, 1974, 74-CHOB9S-3C, P 2-2-1-2-2-4, 12 REFS

BIBLIDGRAPHY

2.3 USER CONSIDERATIONS

ACCESS PROBLEMS FOR THE USER OF COMPUTER NETWORKS ARE DETAILED. THEN A FRAMEWORK FOR PROBABLE NETWORK ACCESS ASSISTANCE FUNCTIONS IS PROVIDED BY A BRIEF DISCUSSION ON SEVERAL IMPLEMENTED AND PLANNED ACCESS SUPPORT CONFIGURATIONS./

TAULBEE, ORRIN E., SIEGFRIED TREU, JIRI NEHNEVAJSA, USEP ORIENTATION IN NETWORKING, (PITTSBURGH, UNIV. OF, PA), AFIPS CONFERENCE PROCEEDINGS, VOLUME 44, 1975, NATIONAL COMPUTER CONFERENCE, (ANAHEIM, CA, MAY 19-22, 1975), AFIPS PRESS, MENTVALE, NJ, 1975, (LC SS-44701), P 637-644, 18 REFS

AFTER ESTABLISHING THE NEED FOR CONSIDERING THE PLIGHT OF THE USER IN NETWORKING, THE AUTHORS DUTLINE A STRUCTURED APPROACH TO SOLVING THE PROBLEM. EMPHASIS IS PLACED ON AN INTERDISCIPLINARY APPROACH WITH ATTENTION ON PSYCHOLOGICAL AND SOCIOLOGICAL CONSIDERATIONS.

TREU, SIEGFRIEO, A COMPUTER TERMINAL NETWORK FOR TRANSPARENT STIMULATION OF THE USER OF AN ON-LINE RETRIEVAL SYSTEM, NATIONAL BUREAU OF STANDARDS, WASHINGTON, DC, INFORMATION PROCESSING TECHNOLOGY OIV., JUL 72, NBS TN-732, 33P, 22 REFS

A COMPUTER TERMINAL NETWORK TO ENABLE *TRANSPARENT STIMULATION* OF THE USER OF AN ON-LINE PETRIEVAL SYSTEM HAS BEEN DESIGNEO, IMPLEMENTEO, AND PILOT TESTEO. ITS BASIC PURPOSE IS TO PROVIDE A SUITABLE AND EFFECTIVE FRAMEWORK AND METHODELOGY FOR EXPERIMENTAL IDENTIFICATION/VALIDATION OF THOSE HUMAN CHARACTERISTICS WHICH SHOULD BE RECOGNIZEO/REINETAL IDENTIFICATION/VALIDATION OF THOSE HUMAN CHARACTERISTICS WHICH SHOULD BE RECOGNIZEO/REINETAL IDENTIFICATER INTERFACE DESIGN. THE FAILONALE BEHIND THE TRANSPARENT STIMULATION APPROACH IS PRESENTED AND THE METHODELOGY EMPLOYED FOR SUCH REL-TIME, UNDBTUSIVE SCANNING AND MANIPULATION OF THE MAN COMPUTER OIALOGUE IS DESCRIBEO. A GENERAL OVERVIEW OF THE HARDWARE AND SOFTWARE FEATURES OF THE IMPLEMENTED STIMULATION NETWORK IS INCLUDEO.

2.9 CTHER

BECKER, HAL B., A STRUCTURED APPROACH TO INFORMATION NETWORKS. (HONEYWELL INFORMATION SYSTEMS INC., PHOENIX, AZ), COMPCON 73 - SEVENTH ANNUAL IEEE COMPUTER SOCIETY INTERNATIONAL COMFERENCE, DIGEST OF PAPERS, *COMPUTING NETWORKS FROM MINIS THRCUGH MAXIS -- ARE THEY FOR REAL?, (SAN FRANCISCO, CA, FEBRUARY 27-28, MARCH I, 1973), INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS INC., NEW YORK, 1973, (LC 68-1628), P 35-38

THE AUTHOR PRESENTS A STRUCTUREO, APPLICATION INDEPENDENT APPROACH TO INFORMATION NETWORK DESIGN AS AN AID TO DESIGNERS AND IMPLEMENTORS OF INFORMATION NETWORKS. NETWORKING FUNCTIONS ARE IDENTIFIED, INDEPENDENT OF THE SPECIFIC APPLICATIONS THAT THE NETWORK ITSELF WILL ACCOMMODATE. THUS, THE AUTHOR CONTENDS, THIS APPROACH PROVIDES A GREAT DEGREE OF FLEXIBILITY IN THAT THE SAME BASIC SET OF FUNCTIONS CAN BE APPLIED TO ANY NETWORK REGARDLESS OF ITS SIZE OR THE APPLICATIONS INVOLVED.

CHANDRAL A. N., SOME CONSIDERATIONS IN THE DESIGN OF HOMOGENEOUS DISTRIBUTED CATA BASES, (INTERNATIONAL BUSINESS MACHINES CORP., YORKTOWN HEIGHTS, NY, THOMAS J, WATSON RESEARCH CENTER), COMPCON 73 - SEVENTH ANNUAL IEEE COMPUTER SOCIETY INTERNATIONAL CONFERENCE. DIGEST OF PAPERS, *COMPUTING NETWORKS FROM MINIS THROUGH MAXIS -- ARE THEY FOR REAL?*, (SAN FRANCISCO, CA, FEBRUARY 27-28, MARCH [, 1973), INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS INC., NEW YORK, 1973, (LC 68-1628), P 185-186, 6 REFS

DATA BASES WHICH ARE LOGICALLY SIMILAR BUT DISTRIBUTED AMONG SEVERAL COMPUTING FACILITIES CAN BE INTEGRATED TO PROVIDE ACCESS OF THE INFORMATION TO ALL USERS. THE DESIGN OF HOMOGENEOUS, DISTRIBUTED DATA BASES TO PROVIDE FLEXIBILITY OF ACCESS, AND THE RELATED SECURITY AND GEADLOCK PROBLEMS ARE DISCUSSED.

FREEMAN, CAVIO N., ROBERT R. PEARSON, EFFICIENCY VS. RESPONSIVENESS IN A MULTIPLE-SERVICES COMPUTER FACILITY. (TRIANGLE UNIVERSITIES COMPUTATION CENTER. RESEARCH TRIANGLE PARK, NC. WEST GEORGIA COLLEGE, CAROLLION), PROCEEDINGS OF 23RO NATIONAL CONFERENCE. ASSOCIATION FOR COMPUTING MACHINERY, (AUGUST 27-29, 1968), BRANDON-SYSTEMS PRESS INC., PRINCETON, NJ. 1968, ACM P-68, P 25-348, 9 REFS

JOB SCHEDULING ALGORITHMS IN A MULTIPROGRAMMING ENVIRONMENT--OS ON AN IBM 360/75--ARE DISCUSSED. THE TRIANGLE UNIVERSITIES COMMUTER CENTER (TUCC) NETWORK IS USED AS A CASE IN POINT TO DEVELOP THE ANALYSIS. THIS NETWORK IS NOT THE MAIN TOPIC, BUT SOME INSIGHT TO THE STRUCTURE OF THIS APPARENTLY SUCCESSFUL SERVICE CENTER CAN BE GAINED.

FREEMAN, CAVIO N., OR., JOE R. RAGLANO, THE RESPONSE-EFFICIENCY TRADE-OFF IN A MULTIPLE-UNIVERSITY SYSTEM. (PENNSYLVANIA, UNIV. OF, PHILAOELPHIA, TRIANGLE UNIVERSITIES COMPUTATION CENTER, RESEARCH TRIANGLE PARK, NC), OATAMATION, VOL 16, ISSUE 3, MAR 70, P 112-113, 116

THE PRINCIPAL FEATURES OF THE CENTRAL SERVICE FACILITY FOR THE TRIANGLE UNIVERSITIES COMPUTATION CENTER (TUCC) REGIONAL COMPUTER NETWORK ARE SUMMARIZED. A WIDE MIX OF JOBS IS HANDLED EFFICIENTLY BY PLACING HEAVY EMPHASIS ON FAST-BATCH AND BY UTILIZING LARGE CORE STORAGE TO PROVIDE COST-EFFECTIVE OPEPATION, OVER 90% OF THE SYSTEM LOAD IS FROM REMOTE TERMINALS.

LEFROVITS, H. C., CMARACTERISTICS OF OATABASE SYSTEMS IN A COMPUTER NETWORK ENVIRONMENT, (GENERAL ELECTRIC CO., BRIDGEPORT, CT. ADVANCED SYSTEMS AND TECHNOLOGY OPERATION), . INTEROISCIPLINARY CONFERENCE ON MULTIPLE ACCESS COMPUTER NETWORKS, (AUSTIN, TX, APRIL 20-22, 1970), APR 70, P 3-1-1-3-1-8

THIS SHORT ARTICLE ILLUSTRATES THE OIFFERENCES BETWEEN A TREE-STRUCTURED DATA BASE AND MORE GENERAL GRAPH-STRUCTURED DATA BASES. DESPITE ADDITIONAL DIFFICULTIES, GRAPH-STRUCTURED DATA BASES ARE FELT TO BE NECESSARY IN A NETWORK (ALSO, LNDER 4.1.2)

RAYMOND, RICHARO C., A MODEL WHICH AIDS IN THE DESIGN OF CENTRAL STATIONS FOR LARGE COMPUTER NETWORKS, (GENERAL ELECTRIC CO., NEW YORK, RESEARCH AND DEVELOPMENT CENTER), INTERDISCIPLINARY CONFERENCE ON MULTIPLE ACCESS COMPUTER NETWORKS, (AUSTIN, TX, APRIL 20-22, 1970), APR 70, P 3-5-1-3-5-8, 3 REFS

A CONVERSATIONAL MODEL TO AID IN THE DESIGN OF THE COMPUTER SYSTEMS WHICH SERVE LARGE, MULTI-USER COMPUTER NETWORKS IS DESCRIBED. SAMPLE RESULTS INCLUDE A NUMBER OF OPTIONAL SYSTEMS BALANCED IN RELATION TO PROCESSOR, MEMORY, I/O CONTROL, FILE STORAGE, PAGING, AND OTHER PARAMETERS FOR VARIOUS TYPES OF JOB REQUIREMENTS. RESULTS ARE DOBTAINED BY SETTING PARAMETERS DESCRIBING A JOB MIX ENVIRONMENT IN SOME DETAIL TO A SIMULATOR IMPLEMENTED IN FORTRAN ON THE GE MARK II TIME-SHARING SYSTEM. DUTPUT IS VERY DETAILED AND INCLUDES COST INFORMATION FOR THE SYSTEMS DESCRIBED.

WHITNEY, V. KEVIN MOORE, A STUDY OF OPTIMAL FILE ASSIGNMENT AND COMMUNICATION NETWORK CONFIGURATION IN REMOTE-ACCESS COMPUTER MESSAGE PROCESSING AND COMMUNICATION SYSTEMS, MICHIGAN, UNIV, OF, ANN ARBOR, OEPT, OF ELECTRICAL ENGINEERING, SEP 70, MI-DEE SEL-48, AF F30602-69-C-0214, 408P, 187 REFS

A RESEARCH PROJECT IS DESCRIBED FOR FILE DISTRIBUTION IN NETWORKS HAVING THE FOLLOWING CHARACTERISTICS: LARGE DATA DASES ORGANIZED INTO RECORD FILES. WIDELY DISTRIBUTED USERS, AN ON-LINE COMMUNICATION NETWORK JOINING USERS TO DATA DASE SITES, AND SPECIFIED PERFORMANCE CONSTRAINTS (E.G., RESERVATION SYSTEMS, TIME-SHARING SYSTEMS). THE PROBLEMS ADDRESSED INCLUDE: (1) DETINAL NUMBERS AND LOCATION OF SITES FOR SYSTEM FILES; (2) OFTINAL DESIGN OF COMMUNICATION STATUS SANDLES AND NETWORKS OF THESE CHANNELS; (3) OFTINAL DESIGN OF COMMUNICATIONS NETWORK TOPOLOGIES. THE SOLUTION PROCEDURES ARE INTEGRATED INTO A TOTAL DESIGN PROCEDURE AND AN EXAMPLE OF ITS APPLICATION TO A LARGE SYSTEM IS GIVEN. (ALSO UNDER 4.1.2) 3. ARCHITECTURE

3.0 GENERAL

NDNGFSKY, JULIUS, COMPUTERS AN^O COMMUNICATIONS. REPORT OF WORKSHOP 9, (SOUTHERN METHODIST UNIV., DALLAS, TX), Greenberger, martin, julius aronofsky, james L. Mckenney, William F. Massy, networks for research and education: sharing Computer and information resources nationwide, mit rress. Cambridge, Ma. 1973; p. 366-364, I Refs

THE WORKSHOP WAS CONCERNED WITH ALTERNATIVE NETWORK DESIGNS, COMPUTER EQUIPMENT CONFIGURATIONS, TELECOMMUNICATIONS APRROACHES, SWITCHING SYSTEMS, AND BASIC NETWORK CONFIGURATIONS. IT ALSO DEALT WITH THE QUESTIONS OF TELECOMMUNICATIONS PCLICY.

ASHENHURST, ROBERT L., HIERARCHICAL COMPUTING, (CHICAGO, UNIV. DF, IL, INST, FOR COMPUTER RESEARCH), Greeneerger, Martin, julius Ardnofsky, james L. Mckenney, William F. MaSsy, Networks FDR research and education: Sharing Comruter and information resources nationwide, Mit Press, Cambridge, Ma, 1973, P. 74-88, 6. Refs

HIERARCHICAL COMPUTING TOGETHER WITH NETWORKING MAY MAKE COMMUTING MORE COST-EFFECTIVE FOR EDUCATIONAL AND RESEARCH ORGANIZATIONS. THE AUTHOR DISCUSSES THE ATTRIBUTES OF COMPUTES AND INFORMATION SYSTEMS THAT MAKE HIERARCHICAL COMPUTING ATTRACTIVE, RARTICULARLY IN THE CONTEXT OF COMPUTER NETWORKS. A SPECIFIC EXAMPLE OF THIS CONCEPT. THE MINICOMPUTER INTERFACING SUPPORT SYSTEM IMISS) RROJECT AT THE UNIVERSITY OF CHICAGO, IS DESCRIBED.

EALZER, F., W. GUVAL, R. BRESSLER, INTERENTITY COMMUNICATION, RAND CDRR,, SANTA MONICA, CA, 13 OCT 71, SP

A DISCUSSION OF INTER-PROCESS, INTER-USER COMMUNICATION IN A NETWORK ENVIRONMENT IS CONTAINED IN THIS REPORT. I Presents some intriguing ideas, both in general and for a rroposed experiment in which two geographically separated users can communicate with the same program in execution and possibly with a record of rrige interaction with the FROGRAM.

- BARAN, PAUL, ON DISTRIBUTED COMMUNICATIONS: 1. INTRODUCTION TO DISTRIBUTED COMMUNICATIONS NETWORKS, RAND CORP., SANTA MONICA, CA, AUG 64, RC RM-3420-PR, AF 491638)-700, (AD-444 B30), 37R, 3 REFS IANNOTATION UNDER 1.0)
- EARAN, PAUL. DN DISTRIBUTED COMMUNICATIONS: XI. SUMMARY DVERVIEW, RAND CORP., SANTA MONICA, CA, AUG 64, RC RM-3767-PR, AF 49(638)-700, IAD-444 837). 23P

THIS VOLUME DF 'DN DISTRIBUTED COMMUNICATIONS' SUMMARIZES WORK RERFORMED ON THIS PROJECT AS OF AUGUST 1964. IT IS CLAIMED THAT A HIGHLY RELIABLE ERROR-FREE DIGITAL COMMUNICATIONS SYSTEM USING NOISY LINKS AND UNRELIABLE COMPONENTS CAN BE BUILT USING THEN STATE-DF-THE-ART ELECTRONIC COMPONENTS. BARAN CLAIMS TO HAVE BEGUN TO UNDERSTAND SOME DF THE PYENDMENA ASSOCIATED WITH TIME DELAYS. ROUTING ALGORITHMS. AND THE LIKE, FOR SUCH NETWORKS. ALTHOUGH SOME DF THE MATERIAL IN THIS REPORT IS VALUO DALY FOR BARAN'S DRIGINAL INTENT FOR A SPECIFIC TYPE OF SYSTEM FOR A MILITARY ENVIRONMENT. SOME DF THE CONCLUSIONS AND HIS GENERAL ARROACH IN SUMMARIZING THE ADVANTAGES AND DISADVANTAGES DF THIS TYPE OF NETWORK ARE USEFUL IN EVALUATING ALTERNATIVE APRRDACHES TO RESOURCE-SHARING COMPUTER NETWORKS OF THE 1970*S.

RTLETT, K, A., TRANSMISSION CONTRCL IN A LOCAL DATA NETWORK, (NATIONAL PHYSICAL LAB+, TEODINGTON, (ENGLAND)), INFORMATION PROCESSING 68; RROCEEDINGS OF IFIR CONGRESS 1968, VOLUME 2--HARDWARE, APPLICATIONS, (EDINBURGH, (SCOTLAND), AUGUST S-10, 1968), NORTH-HOLLAND PUBLISHING CO., AMSTERDAM, INETHERLANDS), 1969, IFIP CONGRESS PROCEEDINGS, ILC 65-24118), P 704-708, 3 REFS BARTLETT.

A NETWORK IS DESCRIBED CONNECTING A VARIETY OF COMPUTERS, RERIPHERALS, AND TERMINALS TO A CENTRAL ROUTING COMPUTER. THIS CENTRAL ROUTING COMPUTER IS A MESSAGE-SWITCHING COMPUTER ACTING AS A NODE [N A NATIONAL DISTRIBUTED COMPUTER NETWORK. OTHER THAN NOTING ITS EXISTENCE, THE CONCERN IS NOT WITH THE NATIONAL NET. 8 UT DNLY WITH LOCAL NETS THAT CONNECT TO IT. THE MESSAGE-SWITCHING COMPUTER IS DESIGNED TO HANDLE HIGH SPEED SUBSCRIBERS, LDWER SREED DEVICES ARE FIELDED THEOUGH A HIEFARCHY OF MULTIPLEXORS, EACH DEFERORMING TRANSMISSION.

8ELYAKOV-80DIN, V. I., YU. I. TDRGOV, DN THE STRUCTURE DF A HETERDGENEDUS COMPUTING SYSTEM, CONTROLLED BY A LARGE DIGITAL COMPUTER, AIR FORCE SYSTEMS COMMAND, WRIGHT-PATTERSON AF8, DH, FOREIGN TECHNOLDGY DIV., ACADEMY OF SCIENCES OF THE USSR, COMMUTER CENTER, I OCT 69. AFSC-FTO HT-23-1450-68, AF F33657-68-0-1287, IAD-699 640), BP, 4 REFS REPRINT FROM WORKS ON TECHNICAL CYBERNETICS (1967) 60-66/

SOME INTERESTING CONCEPTS IN HIERARCHICAL COMPUTING ARE PRESENTED RELATIVE TO A CONFIGURATION WITH A NUMBER OF MEDIUM SCALE COMPUTERS INTEGRATED INTO A SYSTEM CONTROLLED BY A LARGER COMPUTER.

BENNETT, J. M., C. S. WALLACE, J. W. WININGS, A GRAFTED MULTI-ACCESS NETWORK, ISYDNEY, UNIV, DF, IAUSTRALIA), UEPT, DF BASSER CDMPUTING). INFORMATION PROCESSING 68: RROCEEDINGS OF IFIP CONGRESS 1968. VOLUME 2--HARDWARE, ARRLICATIONS, (EDINBURGH, ISCOTLAND), AUGUST 5-10, 1968), NDRTH-HOLLAND PUBLISHING CD., AMSTERDAM, (NETHERLANDS), 1969, IFIR CONGRESS RROCEEDINGS, ILC 65-24118), P 917-922, 2 REFS

A NETWORK IS DESCRIBED WHERE A SMALL COMRUTER IS GRAFTED ONTO A LARGE DNE (I.E. LITTLE INTERFERENCE IS INTRODUCED INTO THE NGRMAL DREARTING SYSTEM OF THE LARGE MACHINE) TO RROVIDE NECESSARY FUNCTIONS NOT DRIGINALLY INCLUDED IN THE LARGE SYSTEM INCLUDING ON-LINE FILE STORAGE, INTERACTIVE CONSOLE COMMUNICATION, JOB SCHEDULING, FILE EDITING, AND COMMAND LANGUAGE INTERRRETATION.

BIRNBAUM. J.. A TIME SHARED SYSTEM FOR MULTIPLE INDEPENDENT LABORATORIES. LINTERNATIONAL BUSINESS MACHINES CORP... RNDAUM, J., A TIME SHARED STSTEM FOR MULTIPLE INDEPENDENT LABORATORIES, TINTERNATT YORKTOWN FEIGHTS, NY, THOMAS J. WATSON RESEARCH CENTER), TEEE TRANSACTIONS ON NUCLEAR SCIENCE, VOL NS-18, ISSUE I, FE8 71, P 287-291, 6 REFS

A CCMRUTER EASEC OATA ACQUISITION NETWORK IS DESCRIBED FOR THE TRANSMISSION OF INFORMATION BETWEEN REMOTE INDERENDENT LABORATORIES AND A TIME-SHARED 10M 360. SATELLITE COMRUTERS, WHICH WOULD NORMALLY BE USED FOR RERFORMING THE REAL-TIME TASKS, ARE RERLACED BY LESS EXRENSIVE CONTROLLERS WITH A MORE LIMITED INSTRUCTION SET, BUT WITH ENHANCED FACILITIES FOR INFORMATION TRANSFER,

ANC, ROBERT R., AVAILABILITY AND USEABILITY OF COMMUTER COMMUNICATION NETWORKS. (RRESENTED AT, SEVENTH HAWAII International conference on system sciences, honolulu, hi, january 80-10, 1974), national Bureau of Standards, Washington, GC, computer networking section, jan 74, nsf ec-oagba, nsf Gj-33220, nsf 64-3302, hu (nt4-7), ar, 9 refs

THE TECHNICAL CHARACTERISTICS OF EXISTING APRRDACHES TO COMRUTER NETWORKING TECHNOLOGY ARE REVIEWED FOR THE RURDSE OF IOENTIFYING THOSE FEATURES WHICH LENG THEMSELVES RARTICULARLY WELL TO THE INTERCONNECTION OF COMPUTERS, AS WELL AS COMRUTER TERMINALS.

CASTLE, JAMES C+, SYSTEM CONTROL IN MULTIRLE ACCESS COMPUTER NETWORKS, (GENERAL ELECTRIC CO., BETHESDA, MD, DERT, DF INFORMATICN NETWORKS),

INTERNISCIEUTAUN NEITAURAS), INTERNISCIRLINARY CONFERENCE ON MULTIRLE ACCESS COMPUTER NETWORKS, (AUSTIN, TX, ARRIL 20-22, 1970), ARR 70, R S-3-1--S-3-11, 30 REFS IANNOTATION UNDER I.0)

CHDU, WUSHOW, COMPUTER COMMUNICATION NETWORKS--THE RARTS MAKE UR THE WHDLE, (NETWORK ANALYSIS CORR., GLEN COVE, NY), AFIRS CONFERENCE PROCEEDINGS. VOLUME 44, 1975. NATIONAL COMBUTER CONFERENCE, (ANAHEIM, CA. MAY 19-22, 1975), AFIRS RRESS, MONTVALE, NJ, 1975, ILC SS-44701), R 119-128, 27 REFS

THIS ARTICLE IS A INTRODUCTORY, YET THOROUGH, DISCUSSION OF THE COMPONENTS OF COMPUTER COMMUNICATIONS NETWORKS. TERMINDLOGY RELATED TO NETWORK ARCHITECTURE AND COMMUNICATIONS IS DEFINEO. THE COMMUNICATION DEVICES, TRANSMISSION FACILITIES AND TRAFFIC MANAGEMENT OF CENTRALIZED, RING-SWITCHED AND STORE-AND-FORWARD SWITCHED NETWORKS ARE DISCUSSED.

NOWTHER, W., R., F. E. HEART, A. A. MCKENZIE, J. M. MCCUILLAN, O. C. WALDEN, ISSUES IN RACKET SWITCHING NETWORK DESIGN, (BOLT, BERANEK AND NEWMAN INC., CAMBRIDGE, MA), AFIRS CONFREENCE RROCEEDINGS, VOLUME 44, 1975, NATIONAL COMPUTER CONFERENCE, (ANAHEIM, CA, MAY 19-22, 1975), AFIRS PRESS, MONTVALE, NJ, 1975, ILC SS-44701), R 161-175, 33 REFS CROWTHER. W. R.

AFTER DEFINING KEY TERMINOLDGY, THE AUTHORS DELVE INTO A THOROUGH DISCUSSION OF NETWORK DESIGN, AMONG THE TORICS CCVEREC ARE RERFORMANCE GOALS, HAROWARE DESIGN, STORE-AND-FORWARD SUBNETWORK SOFTWARE DESIGN, AND SOURCE-TO-DESTINATION SOFTWARE DESIGN, THE AUTHORS EMPHASIZE THAT ALTHOUGH CONSIDERABLE EXREPIENCE HAS BEEN GAINED WITH RACKET-SWITCHING, THE FUTURE HOLDS GREAT CHALLENGES. AMONG THESE CHALLENGES ARE SREECH TRANSMISSION, NETWORK INTERCONNECTION, RADID TRANSMISSION

3.C GENERAL

- AND TRANSFERRING THIS TECHNOLOGY FROM AN RED ENVIRONMENT TO WIDESPREAD PRODUCTION IMPLEMENTATIONS. THIS IS AN INFORMATIVE, WELL-WRITTEN ARTICLE.
- DAVIS, RUTH N., THE NATIONAL BIOMEDICAL COMMUNICATIONS NETWORK AS A DEVELOPING STRUCTURE, (NATIONAL BUREAU OF STANDARDS, WASHINGTON, DC, CENTER FOR COMPUTER SCIENCES AND TECHNOLOGY), BECKER, JOSEPH, PROCEEDINGS OF THE CONFERENCE ON INTERLIBRARY COMMUNICATIONS AND INFORMATION NETWORKS, (WARRENTON, VA. SEPTEMBER 28-OCTOBER 2, 1970), AMERICAN LIBRARY ASSOCIATION, CHICAGO, IL, 1971, DEC 0-9-230288-4235(095), (LC 70-18596 P 294-309, 4 REFS 70-18596) .
 - ALTHOUGH THE PRIMARY TOPIC OF THIS PAPER IS THE PLANNING FOR A BIOMEDICAL COMMUNICATIONS NETWORK, CONSIDERABLE ALERUGO FUCH MORE GENERAL INTEREST IS PRESENTE LANDING FOR A DIABOLEAL CUMMUNICATIONS NETWORK, CUNSIDERABLE MATERIAL OF MUCH MORE GENERAL INTEREST IS PRESENTED. A GENERAL DESCRIPTION OF NETWORK STRUCTURES AND PERFORMANCE OBJECTIVES INCLUDES COVERAGE OF CENTRALIZEO, COMPOSITE-CENTRALIZEO, AND HIERARCHICAL NETWORKS. (ALSO UNDER 4.2.9)
- , DR., TELECOMMUNICATIONS TURBULENCE AND THE COMPUTER NETWORK EVOLUTION, (OMW TELECOMMUNICATIONS CORP., ANN ARON, MI). CCMPUTER, VOL 7. ISSUE 2. FEB 74. P 13-22. S3 REFS (ANNOTATION UNDER 1.3)

ELMENDORF, C. H., P. E. MUENCH, K. W. SUSSMAN, DATA COMMUNICATIONS NETWORK ARCHITECTURE, (AMERICAN TELEPHONE AND TELEGRAPH CO., NEW YORK), INTERDISCIPLINARY CONFERENCE ON MULTIPLE ACCESS COMPUTER NETWORKS, (AUSTIN, TX, APRIL 20-22, 1970), APR 70, P 3-4-1--3-4-6, 3 REFS

THE OPTIMAL BALANCE IN TTHE SELECTION OF COMMUNICATIONS COMPONENTS OF A NETWORK IS DISCUSSED. VARIOUS BELL SYSTEM OFFERINGS ARE DESCRIBED AND THEIR POTENTIAL APPLICATION IN COMPUTER NETWORKS ARE DISCUSSED. (ALSO UNDER 1.3)

FARBER, DAVID J., DATA RING ORIENTED COMPUTER NETWORKS, (CALIFORNIA, UNIV. OF, IRVINE), RUSTIN, RANDALL, CODRANT COMPUTER SCIENCE SYMPOSIUM 3. COMPUTER NETWORKS, (NOVEMBER 30-DECEMBER [, 1970), PRENTICE-HALL INC., ENGLEWOOD CLIFFS, NJ, 1972, PRENTICE-HALL SERIES IN AUTOMATIC COMPUTATION, (LC 70-39373), P 79-93

THIS IS A VERY INTERESTING AND TECHNICALLY ORIENTED PAPER ON THE DISTRIBUTED COMPUTING SYSTEM (OCS) AT THE UNIVERSITY OF CALIFORNIA, IRVINE. SOME GOOD INSIGHT INTO RING CONFIGURED SYSTEMS IS GIVEN.

RANK, HOWARD, LEONARD KLEINROCK, ROBERT E, KAMN, COMPUTER COMMUNICATION NETWORK DESIGN--EXPERIENCE WITH THEORY AND PRACTICE. (NETWORK ANALYSIS CORP., GLEN COVE, NY, CALIFORNIA, UNIV. OF, LOS ANGELES, BOLT, BERANEK AND NEWMAN INC., CAMBRIDGE, MA), FRANK, HOWARD,

CARDRIDGE, MAY, AFIPS CONFERENCE, 1972 SPRING JOINT COMPUTER CONFERENCE, VOLUME 40, (ATLANTIC CITY, NJ, MAY 16-18, 1972), AFIPS PRESS, MONTVALE, NJ, 1972, AFIPS CONFERENCE PROCEEDINGS, (LC SS-44701), P 25S-270, S2 REFS

THIS IS AN EXCELLENT REVIEW OF THE STATE-OF-THE-ART OF THE DESIGN OF MESSAGE SWITCHED NETWORKS. WITH AN EMPHASIS ON THE INITIAL AND CONTINUING DESIGN OF THE ARPANET. THE CAPABILITIES AND LIMITATIONS OF PRESENT DESIGN TECHNIDUES ARE CLEARLY SUMMARIZED. LITTLE ATTENTION IS GIVEN TO IMPLEMENTATION DETAILS OR TO COMPARISON WITH CIRCUIT-SWITCHED NETWORKS, BUT THE CONCEPTUAL PROBLEMS IN DESIGNING AND IMPLEMENTING ARPA-TYPE NETWORKS ARE IDENTIFIED AND DISCUSSED FORTHRIGHTLY AND IN AN ACADEMICALLY SATISFYING MANNER. (ALSO UNDER 2.0)

FRISCH. IVAN T.. DR., TECHINCAL PROBLEMS IN NATIONWIDE NETWORKING AND INTERCONNECTION, (NETWORK ANALYSIS CORP., GLEN COVE, NY), IEEE TRANSACTIONS ON COMMUNICATIONS, VOL COM-23, ISSUE 1, JAN 75, P 78-88. 43 REFS

THE COMPUTER-COMMUNICATIONS REVOLUTION IS NOW AT THE POINT WHERE LOCAL INTERACTIVE SUBSCRIBERS WILL BE PRESENTED WITH THE OFPORTUNITIES FOR NATIONWIDE INTERCONNECTION. THIS ARTICLE DESCRIBES A RANGE OF TECHNICAL PROBLEMS THAT MUST BE FACED IN THE IMPLEMENTATION OF NATIONAL AND LOCAL METWORKS. SOME TECHNIQUES ARE PROPOSED AND EVALUATED. (ALSO UNDER 2.1)

- GERFA . M. H. FRANK, W. CHOU, J. ECKL, DESIGN ALTERNATIVES FOR LARGE DISTRIBUTED NETWORKS, (NETWORK ANALYSIS CORP.
- GLEN CCVE, NY), NATIONAL TELECCHMUNICATIONS CONFERENCE, CONFERENCE RECORD, VOLUME 2, (NEW ORLEANS, LA, DECEMBER 1-3, 1975), INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YORK, 1975, IEEE 75-CH-1015-7-CSCB, (LC 57-20724), P 27-15--27-21, 25

THIS PAPER REVIEWS THE ALTERNATIVE NETWORK CONFIGURATIONS AVAILABLE FOR BACKBONE AND LOCAL ACCESS DESIGN AND DISCUSSES THE IMPACT OF NETWORK STRATEGY, PARAMETERS AND REQUIREMENTS ON OPTIMAL BACKBONE NODE NUMBER AND LOCATION, GENERAL TRENDS OF COST AND PERFORMANCE VERSUS NUMBER OF NODES ARE DERIVED, AND ARE ILLUSTRATED WITH A LARGE NETWORK DESIGN APPLICATION.

HOWE, W. GERRY, TOM R. KIBLER, CONTROL CONCEPTS OF A LOGICAL NETWORK MACHINE, INTERNATIONAL BUSINESS MACHINES CORP., Yorktown Heights, Ny, Thomas J. Watson research center, 22 Apr 71, Ibm-tjwrc rc-3331, 13P

THE CONTROL CONCEPTS AND THE COMMAND LANGUAGE CONSIDERATIONS THAT FORM THE BASIS FOR THE NETWORK OPERATING SYSTEM ARCHITECTURE FOR THE IBM NETWORK/440 ARE DESCRIBED.

XY. W. M., D. L. MILLS, M. V. ZELKOWITZ, OPERATING SYSTEMS ARCHITECTURE FOR A DISTRIBUTED COMPUTER NETWORK, (MARYLAND, UNIV. CF, COLLEGE PARK, DEPT. OF COMPUTER SCIENCE), PROCEEDINGS OF THE 1974 SYMPOSIUM, COMPUTER NETWORKS: TRENOS AND APPLICATIONS, (GAITHERSBURG, MD, MAY 23, 1974), INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YORK, 1974, 74CHOB3S-9C, P 39-43, B REFS LAY, W. M.,

THIS PAPER DESCRIBES THE STRUCTURE OF THE SUPERVISORY SYSTEM FOR A DISTRIBUTED COMPUTER NETWORK WHICH IS UNDER Development at the University of Maryland. The Network consists of a dec popii/as, a Univac 1106 and a Univac 1108. Two Different Hostel organizations, one for the Popii/as and the Other For Either De The Univac 1100 series computers. Have been developed, and are described, these hostel organizations provide a common interface for User processes and establish a common System for communication which is independent of Process Location.

LEGATES, JCHN, NETWORKS IN HIGHER EDUCATION: PROCEEDINGS OF THE EDUCOM COUNCIL MEETING SEMINAR, INTRODUCTION (PRESENTED AT, NETWORKS IN HIGHER EDUCATION: PROCEEDINGS OF THE EDUCOM COUNCIL MEETING SEMINAR, ATLANTA, GA, OCTOBER 15, 1970, (INTERNIVERSITY COMMUNICATIONS COUNCIL INC. (EDUCOM), PRINCETON, NJ). BEHAVIORAL SCIENCE, VOL 16, ISSUE 5, SEP 71, P 490-492

THIS IS AN INTRODUCTORY PAPER PRESENTED AT A SEMINAR DEVOTED TO THE THEORETICAL AND PRACTICAL ASPECTS OF NATIONAL REGIONAL, AND LOCAL COMPUTER NETWORKS. THE AUTHOR DISCUSSES THE MAJOR VARIABLES IN NETWORKING; SIZE; SHAPE; NATURE OF ELEMENTS LINKED; NATURE OF THE CONNECTION; AND NATURE OF THE ITEMS DISTRIBUTED.

RILL, THOMAS, LAWRENCE G. ROBERTS, TOWARD A COOPERATIVE NETWORK OF TIME-SHARED COMPUTERS, (COMPUTER CORP. OF America, campridge, ma, massachusetts inst. of Tech., lexington, lingdin lab.), AFIPS proceedings. 1966 Fall joint computer conference. Volume 29, (San Francisco, ca. November 7-10, 1966), spartan Books inc., washington, dc. 1966, AFIPS conference proceedings, (LC SS-44701), p 425-431, 3 REFS MARILL

THE CONTENT OF THIS PAPER IS ALMOST IDENTICAL TO MARILL'S ARTICLE, 'A COOPERATIVE NETWORK OF TIME-SHARING COMPUTERS' IN CATEGORY 3.0. AN APPENDIX IS ADDED WHICH DESCRIBES THE MESSAGE PROTOCOL EMPLOYED IN THE NETWORK.

MARILL, THOMAS, A CCOPERATIVE NETWORK OF TIME-SHARING COMPUTERS: PRELIMINARY STUDY, COMPUTER CORP. OF AMERICA. CAMBRIDGE, MA. I JUN 66, CCA TR-11, 52P, 6 REFS

FACILITIES FOR THE INTERCONNECTION OF TIME-SHARING SYSTEMS ARE DISCUSSED. THE FACILITIES ARE DFF-THE-SHELF, VINTAGE 1966. A "DICTIONARY" OF MODEMS, COMMON CARRIERS, AND COMMUNICATIONS TECHNIQUES IS PROVIDED. THE RECOMMENDED CONFIGURATION CALLS FOR THE CONNECTION OF COMPUTERS VIA 1200 BAUD DIALUP LINES. DISTANT SYSTEMS WOULD LOOK LIKE TERMINALS TO A HOST SYSTEM AND NO MONITOR CHANGES WOULD BE REQUIRED. (ALSO UNDER 3.2.0)

MCKAY, DOUGLAS B., DONALD P. KARP. JAMES W. MEYER. ROBERT S. NACHBAR, EXPLORATORY RESEARCH ON NETTING IN IBM. INTERNATIONAL BUSINESS MACHINES CORP., YORKTOWN HEIGHTS, NY, THOMAS J. WATSON RESEARCH CENTER, 14 JUN 71, IBM-TJWRC RC-3486, 43P

3.0 GENERAL

TWE TYPES OF NETWORKS ARE DESCRIBED. THE FIRST IS A DISTRIBUTED NETWORK OF HOMOGENEOUS COMPUTERS--IBM 360/67*3. A TERNINAL FROM DNE HOST IS ABLE TO INTERACT WITH ANOTHER HOST THROUGH A SWITCHED CONNECTION ESTABLISHED ON DEMAND BETWEEN THE POSTS. THE SECOND NETWORK IS NETWORK/440, WHICH IS CLASSIFIED BY THE AUTHOR AS ONE OF NON-HOMOGENEOUS HARDWARE AND OPERATING SYSTEMS. THE GBJECT BEING TO VIEW THE NETWORK AS ONE MULTIPROCESSOR. THE NETWORK IS CENTRAL SWITCHED, CONNECTING FOUR OIFFRENT MODEL 360'S AT THE IBM RESEARCH CENTER, EACH DOFRATING UNDER DS/30 AND ACCESSING EACH OTHER THROUGH THE BASIC TELECOMMUNICATIONS ACCESS METHOD. A NETWORK CONTROL LANGUAGE CALLED 'ACL' IS DEFINED AND APPEARS CONVENIENT TO USE. EACH PROCESSOR WUST BE ABLE TO COMPILE AND INTERPRET ACL. THE NETWORK IS DESIGNED FOR CONVENIENT RENOTE PROGRAMMING AND FOR LARGE OR SMALL FILE TRANSMISSION. PROGRAM EXECUTION CAN DOCLUR EITHER LOCALLY ON REMOTELY WITH APPARENT EASE. THE STORE AND FOR WARD TECHNICUES USED SY THE RETWORK CONTROL ARE TOLERANT OF HOST CRASHES AND CAN SAVE TRANSMISSIONS ON ISK UNTIL A HOST HAS RECOVERED. INTERACTIVE USERS, IF THEY DESLIFE, CAN DEAIN A DIFECT LOGICAL CONNECTION TO A PROOTE HOST. A DAYWARK TO THE NETWORK AS RECUVERED. ALL COMMUNICATIONS PROCESSING AND ERROR RECOVERY INVOLVES THE HOST COMPUTERS. FRONT END PROCESSORS ARE UNDER CONSIDERATION TO IMPROVE EFFICIENCY.

JAMES L., SOFTWARE SYSTEMS AND OPERATING PROCEDURES, REPORT OF WORKSHOP 10, (HARVARD UNIV., CAMBRIDGE, MA, MCKENNEY. GRADUATES CHOOL OF BUSINESS ADMINISTRATION). GREDNERGER, MARTIN, JULIUS ARDNO'SKY, JAMES L. MCKENNEY, WILLIAM F. MASSY, NETWORKS FOR RESEARCH AND EDUCATION: SHARING CCMPUTER AND INFORMATION RESOURCES NATIONWIGE, MIT PRESS: CAMBRIDGE, MA, 1973, P 365-372, 1 REFS

THE WORKSHOP CONSIDERED SOFTWARE SYSTEMS AND OPERATING PROCEDURES AS A KEY MEANS TO PROVIDING SERVICE TO THE USER. THE DISCUSSION WAS PARTLY INFLUENCED BY EXPERIENCES IN EXISTING NETWORK SYSTEMS, PARTICULARLY THE DIFFERENT REQUIREMENTS FOR DIFFERENT MACHINES ON THE ARPA NETWORK, THE WIDE VARIATION AMONG JOB CONTROL LANGUAGES, AND THE FUTILITY OF CREATING CNE MCRE PLANNING COMMITTEE ON STANDARDS. (ALSO UNDER 5.5)

- NEUMANN, PETER G., SYSTEM DESIGN FOR COMPUTER NETWORKS, (STANFORD RESEARCH INST., MENLO PARK, CA), ABRAMSDN. NDRMAN, FRANKLIN F. KUO. COMPUTER-COMMUNICATION NETWORKS, PRENTICE-HALL INC., ENGLEWOOD CLIFFS, NJ, 1973, CCMPUTER APPLICATIONS IN ELECTRICAL ENGINEERING SERIES, (TKSI02.5.4.283), P 29-81, 83 REFS (ANNOTATION UNDER 1.3)
- PACIFIC EDUCATIONAL COMPUTER NETWORK STUDY, HAWAII, UNIV. OF, HONDLULU, ALOHA SYSTEM, 31 MAR 75, HU TR-CN75-1, NSF GJ-33220, 12P (ANNOTATION UNDER 1.1)
- PEPRY, JOHN, SOME SCLUTIONS TO NETWORK IMPLEMENTATION PROBLEMS. (INTERNATIONAL COMPUTERS LTO., LONGON, (ENGLAND), SYSTEMS AND TECHNICAL SUPPORT), THE SECOND INTERNATIONAL CONFERENCE ON COMPUTER COMMUNICATION, COMPUTER COMMUNICATION TODAY AND UP TO 1985, (STOCKHOLM, (SWEDEN), AUGUST 12-14, 1974), INTERNATIONAL COUNCIL OF ICCC, 1974, P 549-554

DESIGN AND IMPLEMENTATION PRINCIPLES FOR A COMPUTER NETWORK ARE DISCUSSED. IN THE AREA OF DESIGN, SPECIFICATION OF CLEAR OBJECTIVES, SIMPLICITY, AND RESTRAINT IN ERROR HANDLING ARE SUGGESTED. AT THE IMPLEMENTATION STAGE, CONTROL, MODULARITY AND TESTING ARE PROPOSED. ABOVE ALL THE INCLUSION OF OPERATIONS PERSONNEL IN THE PROCEDURE IS STRESSED.

- PHISTER, MONTGOMERY, JR., SYSTEM DESIGN OF ON-LINE SERVICE SYSTEMS, (SCIENTIFIC DATA SYSTEMS, SANTA MONICA, CA), GRUENBERGER, F., COMPUTERS AND COMMUNICATIONS--TOWARD A COMPUTER UTILITY, PRENTICE-HALL INC., ENGLEWOOD CLIFFS, NJ, 1568, (TK SIDI.C67, LC 68-16776), P 135-149 (ANNOTATION UNDER 4.3)
- YKE, THOMAS N., JR., ROBERT P. BLANC, COMPUTER NETWORKING TECHNOLOGY -- A STATE OF THE ART REVIEW, (NATIONAL BUREAU OF STANDARDS, WASHINGTON, OC, INST. FOR COMPUTER SCIENCES AND TECHNOLOGY), COMPUTER, VOL 6, ISUE B, AUG 73, P 12-19, 44 REFS PYKE, THOMAS N. . JR. . (ANNOTATION UNDER 1.3)
- DAVID L., DPERATING SYSTEM DESIGN CONSIDERATIONS FOR THE PACKET-SWITCHING ENVIRONMENT, ISPEECH COMMUNICATIONS RESEARCH LAB. INC., SANTA BARBARA, CA), AFIPS CONFERENCE PROCEEDINGS, VOLUME 44, IS75, NATIONAL COMPUTER CONFERENCE, (ANAHEIM, CA, MAY 19-22, 1975), AFIPS PRESS, MONTVALE, NJ, 1975, (LC S5-44701), P IS5-160, 22 REFS

THIS ARTICLE IS A DISCUSSION OF PACKET-SWITCHING NETWORK ENVIRONMENTS. THE LAYERED STRUCTURE OF PROTOCOLS AND THE RELATED IMPLICATIONS ON THE HOST SYSTEMS ARE PRESENTED. FRONT END SYSTEMS AND AUTOMATED RESOURCE SHARING, WHICH ARE TWO AREAS OF AIDING USER ACCESS TO NETWORKS, ARE INCLUDED IN THE TOPICS. ALTHOUGH THE ARTICLE REPRESENTS A GENERAL DISCUSSION OF PACKET-SWITCHING, THE EXAMPLES POINT TO THE ARPANET. (AL SO LINGER 3.3.2. 3-0-11

DOME, W. G., H. C. TORNG, MODELING AND DESIGN OF COMPUTER NETWORKS WITH DISTRIBUTED COMPUTATION FACILITIES, (CORNELL UNIV., ITHACA, NY, SCHOOL OF ELECTRICAL ENGINEERING), PROCEEDINGS OF THE 1974 SYMPOSIUM, COMPUTER NETWORKS: TRENOS AND APPLICATIONS, (GAITHERSBURG, MO, MAY 23, 1974), INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YORK, 1974, 74CH0835-9C, P 30-38, 28 REFS ROOME, W. O.,

THIS PAPER ADDRESSES THE FOLLOWING PROBLEMS RELATING TO THE COMPUTATIONAL ASPECTS OF A COMPUTER NETWORK: (I) PRESENT THIS PAPER ADORESSES THE FOLLOWING PROBLEMS RELATING TO THE COMPUTATIONAL ASPECTS OF A COMPUTER NETWORK: (1) PRESENT A NETWORK MODEL FOR PERFORMANCE ANALYSIS AND OPTIMAL SELECTION OF BOTH PROCESSOR POWERS AND COMMUNICATIONS SUBSYSTEM SPEEDS; (2) DEVELOP A NETWORK SCHEDULING METHOD FOR AUTOMATICALLY AND OWNAHICALLY DISTRIBUTING THE RECEIVED WORKLOAD AMONG THE NETWORK'S RESOURCES; (3) DEMONSTRATE THAT A OWNAHIC SCHEDULING METHOD CAN BE EFFECTIVE WITHOUT PRIOR KNOWLEDGE OF JOB EXECUTION TIMES, AS LONG AS STATISTICALLY RELATED ESTIMATES ARE PROVIDED; AND (A) ASSESS THE RELATIVE MERITS OF DISTRIBUTED AND CENTRALIZED AUTOMATING Y CONTENTION IS THAT OISTRIBUTED AUTOMATIC SELECTION NETWORKS ARE FEASIBLE IN ALMOST ALL SITUATIONS, AND IN MANY CASES ARE DEFINITELY SUPERIOR.

SCANTLEBURY . R. A. P. T. WILKINSON, THE DESIGN OF A SWITCHING SYSTEM TO ALLOW REMOTE ACCESS TO COMPUTER SERVICES BY ANILEBURY, N.A., P. I. WILKINSUN, THE UESIGN UF A SWITCHING SYSTEM TO ALLOW REMOLE ACCESS TO COMPUTER SERVICES BY OTHER COMPUTERS AND TERMINAL DEVICES. (NATIONAL PHYSICAL LAB., TEDDINGTON. (ENGLAND)), JACKSON, PETER E., PROCEEDINGS. ACM/IEEE SECOND SYMPOSIUM ON PROBLEMS IN THE OPTIMIZATION OF OATA COMMUNICATION SYSTEMS, (FALO ALTO, C.A., OCTOBER 20-22, 1971), 1971, IEEE CAT-71CS9-C, P 160-167, B REFS

A PROPOSAL FOR A NATIONAL OATA NETWORK FOR THE UNITED KINGOOM IS DESCRIBED. THE PROPOSED NETWORK IS ORGANIZED HIERARCHICALLY AND IS INTENDED TO MEET THE REQUIREMENTS OF GENERALIZED COMPUTER TO COMPUTER COMMUNICATIONS. CONCEPTUALLY, THE PROPOSED NETWORK HAS MANY SIMILARITIES TO THE EXISTING ARPANET.

WITH, B. T., MIXED COMPUTER NETWORKS: BENEFITS, PROBLEMS AND GUIDELINES, (CIVIL SERVICE OEPT., LONOON, (ENGLANO)), WINKLER, STANLEY, COMPUTER COMMUNICATIONS: IMPACTS AND IMPLEMENTATION. THE FIRST INTERNATIONAL CONFERENCE ON COMPUTER COMMUNICATION, (WASHINGTON, OC, OCTOBER 24-26, 1972), INTERNATIONAL CONFERENCES ON COMPUTER COMMUNICATION, 1972, ICCC 72-CHC-90-BC, NSF GJ-33239, P 201-209, 4 REFS

THE ADVANTAGES OF HAVING HETEROGENEOUS COMPUTER NETWORKS RATHER THAN NETWORKS OF IOENTICAL COMPUTERS ARE DISCUSSED. SDME NINE SEPARATE BENEFITS ARE IDENTIFIED, FOLLOWED BY EIGHT PROBLEM AREAS. NO SUBSTANTIVE SOLUTIONS TO THESE PROBLEMS ARE PRESENTED OTHER THAN A BRIEF EXPOSITION OF THE LAYERED APPROACH TO INTERFACES AND PROTOCOLS ALREADY IN USE IN A NUMBE OF NETWORKS. A "FEASIBILITY" CHART FOR VARIOUS FUNCTIONS ON VARIOUS TYPES OF NETWORKS (HETEROGENEOUS) IS OF NETWORKS

STEADMAN, HOWARD L., GEORGE R. SUGAR, SOME WAYS OF PROVIDING COMMUNICATION FACILITIES FOR TIME-SHARED COMPUTING, (ESSA RESEARCH LABS., BOULDER, CO), AFIPS PROCEEDINGS, 1968 SPRING JOINT COMPUTER CONFERENCE, VOLUME 32, (ATLANTIC CITY, NJ, APRIL 30-MAY 2, 1968), THOMPSON BOOK CO., WASHINGTON, OC, 1968, AFIPS CONFERENCE PROCEEDINGS, (LC 55-44701), P 23-29

ALTERNATIVE APPROACHES TO MEETING THE COMMUNICATIONS REQUIREMENTS FOR THE TIME-SHARED COMPUTING NETWORK OF THE Environmental science services administration are summarized, with attention given to terminals, communications Lines, switching facilities, and data sets.

- 3.1.0 GENERAL DESCRIPTION
 - A TRANS-CANADA COMPUTER COMMUNICATIONS NETWORK, PHASE I OF A MAJOR PROGRAM ON COMPUTERS, SCIENCE COUNCIL OF CANADA, AUG 71, SCC R-13, SCC SS22-1971-13, 41P

THIS IS AN INTERESTING PROPOSAL DOCUMENTING THE NEED FOR THE TRANS-CANADA COMPUTER COMMUNICATION NETWORK (TCCN). Economic forces and technical prospects are outlined and some social issues are addressed. A section on policy CFTIONS for ownership and organization of the Entire network operation is included. The project appears to be motivated ECONOMIC

3. I.O GENERAL DESCRIPTION

IN PART FROM A CONCERN THAT WITHOUT A NATIONAL POLICY TO CONTROL AND DIRECT NETWORKING, COMPUTER AND INFORMATION SERVICES IN CANADA WILL EVENTUALLY BE AVAILABLE DNLY VIA SPUR LINES TO U.S. COMPUTER COMMUNICATIONS NETWORKS. (ALSO UNDER 1.6, S.O)

ABRAMSON, NORMAN, THE ALDHA SYSTEM--ANDTHER ALTERNATIVE FOR COMPUTER COMMUNICATIONS, (MAWAII, UNIV, OF, HONDLULU), AFIPS PROCEEDINGS, 1970 FALL JOINT COMPUTER CONFERENCE, VOLUME 37, (HOUSTON, TX, NOVEMBER 17-19, 1970), AFIPS OP MONTVALE, NJ, 1970, AFIPS CONFERENCE PROCEEDINGS, (LC 55-AA701), P 281-285, 13 REFS

ABRAMSCN DESCRIPES A MULTIPLE ACCESS METHOD FOR SHARING A RADID CHANNEL AMONG A NUMBER OF USERS. HIS TECHNIDUE DEPENDS ON THE BURST TYPE COMMUNICATION CHARACTERISTIC OF MAN-COMPUTER INTERACTION. A TYPE OF RANOOM ACCESS CHANNEL WITH ACKNOMLEDGEMENTS IS DESCRIBED, FOLLOWED BY APPROPRIATE ANALYSIS, AND THE CONCEPTS MAY BE ESPECIALLY APPLICABLE FOR SATELLITE COMMUNICATION. (ALSO UNDER 3.2.1)

ABRANSON, NCRMAN, THE ALCHA SYSTEM, (MAWAILUNIV, OF, HONGLULU), Abranson, Norman, Franklin F, Kuo, Computer-Communication Networks, prentice-Hall Inc+, englewood cliffs, nj, 1973, Computer Applications in Electrical Engineering Series, (TKS102,5-4.283), p S01-517, 16 Refs

THE ALCHA SYSTEM IS AN EXPERIMENTAL UHF-RADIO COMPUTER-COMMUNICATION NETWORK. VARIOUS ASPECTS OF THE SYSTEM ARE DESCRIBED IN THIS PAPER INCLUDING: THE INTERFACE, CAPACITY AND OPERATION OF THE RANDOM-ACCESS ALCHA CHANNEL, GENERAL DESIGN OF THE SYSTEM, AND GENERAL USE OF THE SYSTEM.

ALARCIA, GABRIEL, SANTIAGO HERRERA, C.T.N.E'S PACKET SWITCHING NETWORK. ITS APPLICATIONS, (C.T.N.E., MAGRIO, (SPAIN)), The second international conference on computer communication. Computer communication today and up to 1985, (Stockholm, (Sweden), August 12-14, 1974), international council of iccc, 1974, p 163-170

IN 1974, C.T.N.E.'S PACKET SWITCHING NETWORK CONSISTED OF TWO SWITCHING AND RETRANSMISSION COMPUTERS (CCR'S), JOINED TO EACH OTHER AND TO THE DATA PROCESSING CENTERS OF THE SUBSCRIBER (CCA), AND THREE CONCENTRATORS WHICH CONNECT THE SOO SUBSCRIBER'S TERMINALS TO THE CCR'S, BY 1978 THE NUMBER OF CENCENTRATORS SHOULD REACH ID WHILE THE NUMBER OF TERMINALS MAY REACH SOOD, THE AUTHORS, ENCOURAGED BY THE FAVORABLE ACCEPTANCE OF THE NETWORK IN SPAIN, ARE IN FAVOR OF AN INTERNATIONAL CONNECTION OF NETWORKS OF THIS TYPE.

AN EXPERIMENTAL COMPUTER NETWORK, COMPUTER CORP. OF AMERICA, CAMBRIDGE, MA, 30 MAR 69. 1 JAN 67-31 MAR 69. AF 19(628)-S167, (MIT ESO-TR-69-74, AO-694 OSS), SOP, 12 REFS

AN EXPERIMENT IN COMPUTER NETWORKING IS DESCRIBED IN WHICH THE TX-2 COMPUTER AT LINCOLN LABS WAS CONNECTED AS A USER TO THE D-32 COMPUTER AT THE SYSTEM DEVELOPMENT CORPORATION UTILIZING A SPECIALLY DEVELOPED TRANSMISSION PROTOCOL. BESIDES DESCRIBING RELATIVELY STRAIGHTFORW ARD EXPERIMENTS CONDUCTED WITH THIS LINK. THE REPORT MENTIONS OTHERS PLANMED IN WHICH THE 0-32 WOULD USE THE TX-2 AND IN WHICH A DEC 33B DISPLAY SYSTEM AT THE ARPA DEFICE IN WASHINGTON WOULD ALSO BE INVOLVED. THERE IS ALSO A BRIEF DISCUSSION OF THE PROBLEMS INVOLVED IN COMPUTER-TO-COMPUTER NETWORKING, SPECIFICALLY MENTIONED IS THE INCREASED NEED FOR DOCUMENTATION WHEN USERS OF RENOTE ACCESS SYSTEMS ARE VERY REMOTE FROM THAT SYSTEM. AN ARQUMENT IS MADE THAT THE ASCII CODE AND ASSOCIATED PROTOCOL ARE INEFFICIENT AND INAPPOPRIATE FOR COMPUTER-TO-COMPUTER

EARBER, D. L. A., D. W. DAVIES, THE NPL DATA NETWORK, NATIONAL PHYSICAL LAB., TEDDINGTON, (ENGLAND), DIV. OF COMPUTER SCIENCE, DCT 70, NPL-DCS CDM-SCI-T.M.-47, 14P, 12 REFS

A GENERAL PURPOSE LABORATORY DATA NETWORK IS DESCRIBED THAT IS DESIGNED AS A PROTOTYPE OF A PROPOSED LOWER LEVEL PCRTICN OF A BRITISH DATA NETWORK. IT IS PACKET-SWITCHED, CENTRALIZED, AND INCORPORATES A SPECIALIZED HARDWARE INTERFACE TO TERMINALS.

BARBER, D. L. A., PROGRESS WITH THE EUROPEAN INFORMATICS NETWORK, (NATIONAL PHYSICAL LAB., TEODINGTON, (ENGLAND), European informatics network),

THE SECOND INTERNATIONAL COMPERENCE ON COMPUTER COMMUNICATION, COMPUTER COMMUNICATION TODAY AND UP TO 1985, (STOCKHOLM, (SWEDEN), AUGUST 12-14, 1974), INTERNATIONAL COUNCIL OF ICCC, 1974, P 215-220, 9 REFS

RECENT DEVELOPMENTS WITH THE EUROPEAN INFORMATICS NETWORK PROJECT ARE DESCRIBED. A PAPER GIVEN BY BARBER AT THE FIRST ICCC INTRODUCED THIS PROJECT. THE PRESENT PAPER BRITELY REVIEWS THE BACKGROUND, DESCRIBES THE NATURE OF THE NETWORK THAT WILL BE CONSTRUCTED, OUTLINES THE WAY THE SPECIFICATION WAS PREPARED, AND DESCRIBES THE PROCEDURES ADOPTED FOR THE SELECTION OF TENDERS AND THE ANALYSIS OF TENDERS. THE PAPER CONCLUDES WITH A DISCUSSION OF SOME OF THE MCRE IMPORTANT FEATURES OF THE SPECIFICATION. (ALSO UNDER 1.1)

BARBER, O. L. A., THE EUROPEAN COMPUTER NETWORK PROJECT. (NATIONAL PHYSICAL LAB., TEODINGTON, (ENGLAND)), WINKLER, STANLEY, COMPUTER COMMUNICATIONSI IMPACTS AND IMPLEMENTATION. THE FIRST INTERNATIONAL CONFERENCE ON COMPUTER COMMUNICATION, (WASHINGTON, OC. OCTOBER 24-26, 1972), INTERNATIONAL CONFERENCES ON COMPUTER COMMUNICATION, 1972, ICCC 72-CMC-690-BC, NSF GJ-33239, P 192-200, 16 REFS

IN NOVEMBER 1971 THE MINISTERS OF EIGHT EUROPEAN COUNTRIES SIGNED AN AGREEMENT TO START A PROJECT AIMED AT BUILDING A EUROPEAN COMPUTER NETWORK. THE NETWORK, WHICH WILL USE STORE-ANO-FORWARD PACKET-SWITCHING TECHNIDUES, WILL INITIALLY JOIN FIVE CATA PROCESSING RESEARCH CENTERS IN FOUR COUNTRIES, BUILLATER IS EXPORTED TO INCLUDE CENTERS IN OTHER NATIONS. THIS PAPER OUTLINES THE REASONS THAT LED TO THE DECISION TO GO AMEAD WITH A EUROPEAN COMPUTER NETWORK, AND OISCUSSES THE FORM IT WILL TAKE, THE FUNCTIONS IT WILL PERFORM, AND THE WAY THE PROJECT WILL BE CONDUCTED. (ALSO UNDER 1.1)

BELL, C. G., A. N. HABERMANN, J. MCCREDIE, RDNALO M, RUTLEOGE, W. WULP, COMPUTER NETWORKS, (CARNEGIE-MELLON UNIV,, PITTSBURGH, PA, OEPT, OF COMPUTER SCIENCE), COMPUTER, VOL 3, ISSUE 5, SEP-OCT 70, P 13-23

COMPUTER NETWORK RESEARCH IS RATIONALIZED IN TERMS OF THE POTENTIAL LONG-TERM CAPABILITIES THAT WILL RESULT. LONG TERM ADVANTAGES OF NETWORKS ARE DISCUSSED ALONG WITH THOSE HAVING HORE IMMEDIATE COST AND PERFORMANCE PAYOFF. CONCEPTS ARE WELL SUPPORTED ANALYTICALLY. (ALSD UNDER 1.1)

EERNITT, DANIEL, INTRA-UNIVERSITY NETWORKS, (PRESENTED AT, NETWORKS IN HIGHER EQUCATION: PROCEEDINGS OF THE EQUCOM COUNCIL MEETING SEMINAR, ATLANTA, GA, OCTOBER 15, 1970. (PENNSYLVANIA, STATE UNIV. OF, UNIVERSITY 'PARK), BEHAVIORAL SCIENCE, VOL 16, ISSUE 5, SEP 71. P A92-A94

THE HISTORY AND CURRENT STATUS OF THE COMPUTING NETWORK AT PENNSYLVANIA STATE UNIVERSITY IS DESCRIBED. TWO DISTINCTIVE ASPECTS OF THE TYPE OF NETWORK IMPLEMENTED ARE (1) RETAINING THE BATCH MODE OF OPERATION AS THE PRIMARY ORIENTATION OF THE SYSTEM AND (2) ESTABLISHING COMPUTATIONAL LABORATORIES FOR THE EXCLUSIVE USE OF STUDENTS AND MAKING THESE LABS DPERATE ON A SELF-SERVICE BASIS. THE SUCCESS OF THE BATCH NETWORK APPROACH IS EVIDENT FROM THE FACT THAT SYSTEM THROUGHPUT INCREASED FROM 300,000 JOBS OURING 1967-6B ACADEMIC YEAR TO OVER A MILLION IN 1969 WITH PEAKS OF MEARLY 10.000 JOBS PER DAY.

BLACK, G., O, R. JUOO, COMPUTER NETWORKS, (NATIONAL COMPUTING CENTRE, MANCHESTER, (ENGLAND)), SCIENCE JCURNAL, VOL 3, ISSUE 9, SEP 67, P 35-40

IN THIS PAPER A BRITISH NATIONAL COMPUTER NETWORK IS PROPOSED AND SUPERFICIALLY DESCRIBED. IT IS BASED ON THE INTERCONNECTION OF AREA COMPUTER SYSTEMS THAT EACH MAY HAVE DIFFERENT FUNCTIONS. TWO PDINTS BROUGHT OUT ARE THE POTENTIAL USE OF SUCH A NETWORK TO PROVIDE BEFORE-THE-FACT CONVERSION TO A NEW MACHINE AT ONE SITE THROUGH THE USE OF A REMOTE COMPUTER AND THE CONTINUAL ESTIMATION AND PROPAGATION OF 'SURPLUS CAPACITY' REPORTS BY PARTICIPATING COMPUTER SYSTEMS.

BREITHAUPT, A. R., PROJECT VIPERIOAE, A BELL LABS COMPUTING NETWORK, (BELL TELEPHONE LABS, INC., NAPERVILLE, IL), COMPCON 73 - SEVENTH ANNUAL IEEE COMPUTER SOCIETY INTERNATIONAL COMFERENCE. DIGEST OF PAPERS, *COMPUTING NETWORKS FROM MINIS THRCUGH MAXIS -- ARE THEY FOR REAL?*, (SAN FRANCISCO, CA, FEBRUARY 27-28, MARCH I, 1973), INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS INC., NEW YORK, 1973, (LC 68-1628), P 235-238, 3 REFS

A DESCRIPTION IS GIVEN OF A NETWORK DEVELOPED BY PROJECT VIPERIDAE TO MAKE GENERAL PURPOSE BATCH AND TIME SHARING COMPUTING FACILITIES OF THREE CENTERS AVAILABLE TO EIGHT BELL LABS LOCATIONS. THIS PROJECT'S GOAL IS TO ESTABLISH EXTENSIVE GENERAL PURPOSE COMPUTER NETWORKING WITHIN BELL LABS.

CAMPBELL, G. H., K. FUCHEL, S. L. PADWA, N. F. SCHUMBURG, BROOKNET - A HIGH SPEED COMPUTER NETWORK, (BROOKHAVEN

3.1.0 GENERAL DESCRIPTION

NATIONAL LAB., UPTON, NY, DEPT. OF APPLIED MATHEMATICS). PROCEEDINGS OF THE THIRD TEXAS CONFERENCE ON COMPUTING SYSTEMS, (AUSTIN, TX, NOVEMBER 7-8, 1974), IEEE COMPUTER SOCIETY, LONG EEACH, CA, 1974, 74-CHO895-3C, P 2-41--22-46, B REFS

BROOKNET IS A DIGITAL COMMUNICATION NETWORK WHICH JOINS SEVENTEEN COMPUTERS OF DIFFERENT MANUFACTURERS TO A CENTRAL FACILITY CONSISTING OF TWO COC 6600'S. BROOKNET IS NOT AN DPERATING SYSTEM, RATHER IT IS ONE OF THE EXECUTING JOBS; THIS MEANS THAT WHILE BROOKNET MAY ABGRT ON AN ERROR. IT OCES NOT CRASH THE SYSTEM.

CANAGA MEETS COMPUTER COMMUNICATION NEEDS, (TELECOMMUNICATIONS, DEDHAM, MA), Telecommunications, vol 6, Issue 9, sep 72, p 52, 54 (Annotation under 1.2)

R. R. HENLEY. M. S. BLOIS, A NETWORK STRUCTURED HOSPITAL INFORMATION SYSTEM, (CALIFORNIA, UNIV. OF, CHRISTY, P. P.

RISTY, P. P., R. R. HENLEY, M. S. BLOIS, A NEWDRK SINGETWEEN HOSPITAL INFORMATION SYSTEM, (CALIFONNIA, UNIV. DF, SAN FRANCISCO, MEDICAL CENTER), CEMPCEN 73 - SEVENTH ANNUAL IEEE COMPUTER SOCIETY INTERNATIONAL CONFERENCE, DIGEST OF PAPERS, "COMPUTING NETWORKS FROM MINIS THROUGH MAXIS -- ARE THEY FOR REALY:, (SAN FRANCISCO, CA, FEBRUARY 27-28, MARCH I, 1973), (INSTITUTE OF ELECTRICAL AND ELECTRENIC ENGINEERS INC., NEW YORK, 1973, (LC 68-1628), P 223-226

A HOSPITAL INFORMATION SYSTEM STRUCTURED AS A NETWORK OF DISPLAY-ORIENTED MINICOMPUTERS IS DESCRIBED. A HOSPITAL INFORMATION STSTEM STROLINGED AS A RETWORK OF OTSPENTION ENTED HINTLOWENTED AN INPUT DEVICE, CALLED A ADVANTAGES OF THE SYSTEM--ECONDMIC, TECHNICAL, AND ADMINISTRATIVE--ARE MENTIONED. AN INPUT DEVICE, CALLED A "PHRASE TYPERTIER," IS INTRODUCED AS A MAN-MACHINE INTERFACE MHICH UTILIZES MINICOMPUTERS AND ALLOWS EACH KEYSTROKE TO DENOTE A PHRASE. THIS SYSTEM PERFORMS AS AN ECONOMIC, MODULAR, HIGH-PERFORMANCE DATA ENTRY AND RETRIEVAL SYSTEM. (ALSO UNDER 4.2.1)

CLARK, DAVID D., ROBERT M. GRAHAM, JEROME H. SALTZER, WICHAEL D. SCHROEDER, THE CLASSROOM INFORMATION AND COMPUTING SERVICE, MASSACHUSETTS INST. OF TECH., CAMBRIDGE, PROJECT MAC, II JAN 71, MIT-MAC TR-BD, NONR 4102(01), 278P (ANNOTATION UNDER 4-3)

COLEMAN, MICHAEL L., ACCNET--A CORPORATE COMPUTER NETWORK, (ALUMINUM CO. OF AMERICA, PITTSBURGH, PA), AFIPS COMPERENCE PROCEEDINGS, VOLUME 42, 1973, NATIONAL COMPUTER COMPERENCE AND EXPOSITION, (NEW YORK, NY, JUNE 4-B, 1973), AFIPS PRESS, MONTVALE, NJ, 1973, AFIPS COMPERENCE PROCEEDINGS, (ICL SS-4470]), P 133-140, SS REPS

THIS PAPER DISCUSSES THE JUSTIFICATIONS FOR A COPPORATE COMPUTER NETWORK, OUTLINES A PROPOSED STAGE BY STAGE Development, and analyzes and reoposes solutions for several of the problems inherent in such a network.

COMRS. BILL, TYMNET: A DISTRIBUTED NETWORK. (TYMSHARE INC.). Datamation, vol 19, ISSUE 7, Jul 73, P 40-43

A GENERAL DISCUSSION OF TYMSHARE INC.'S NETWORK, IDENTIFIED AS TYMNET IS GIVEN IN THIS PAPER. TYMNET IS A DISTEIBUTED NETWORK CONNECTING S4 (ITTES WITH 37 LARGE-SCALE COMPUTERS. THE BASIC CONFIGURATION OF THE NETWORK, EFROR DETECTION CAPABILITY, USER PROCEDURES, SUPERVISORY LOG OF NETWORK STATUS AND OCCURRENCES, AND CURRENT ENHANCEMENTS TO THE SYSTEM ARE DESCRIBED.

CORNELIUS, JOHN, HIERARCHICAL COMPUTING FOR CHEMISTRY, (CALIFORNIA, UNIV, OF, SAN OIEGO), FACTS AND FUTURES, WHAT'S HAPPENING NOW IN COMPUTING FOR HIGHER EDUCATION, PROCEEDINGS OF THE EDUCOM FALL COMFERENCE, (FRINCETON, NJ, OCTOBER 9-11, 1973), INTERUNIVERSITY COMMUNICATIONS COUNCIL INC. (EDUCOM), PRINCETON, NJ, 1974, (LC 74-79222), P 289-292, I REFS

THE CHEMISTRY DEPARTMENT AT THE UNIVERSITY OF CALIFORNIA, SAN DIEGO, IS INTERESTED IN INTERCONNECTING THE HETERDGENEOUS MINICOMPUTERS IN ITS LABCRATCRIES. TO FACILITATE THIS INTERCONNECTION NO ATTEMPT TO EXPLORE BEVOND THE STATE-CF-THE-ART HAS BEEN MADE. THE CAMAC DATA PROCESSING STANDARD FOR COMPUTER INTERFACES HAS BEEN ADOPTED DUE TO ITS SIMFLE PRCTOCOLS AND FLEXIBILITY.

RNEW, RONALO W., OR., PHILIR M. MORSE, OISTRIBUTEO COMPUTER NETWORKING: MAKING IT WORK ON A REGIONAL BASIS, (NEW ENGLAND BOARD OF HIGHER EDUCATION, WELLESLEY, MA, MASSACHUSETTS INST. OF TECH., CAMBRIDGE, OPERATIONS RESEARCH CENTER), SCIENCE, VOL 189, IS AUG 75, P 523-531, 2I REFS CCRNEW+ RONALO W++ OR++

THIS IS AN EXCELLENT ARTICLE ON THE SELF-SUPPORTING NEW ENGLAND REGIONAL COMPUTING PROGRAM (NERCOMP) NETWORK, HISTORICAL EVOLUTION OF NERCOMP, ORGANIZATIONAL ANO MANAGERIAL OBSCRIPTIONS OF THE NETWORK, AND NETWORKING PROBLEMS ARE AMONG THE TOPICS DISCUSSED. THE CONCEPT OF RESOURCE-CHAINING WAS DEVELOPED IN A NERCOMP COMMITTEE. RESOURCE-CHAINING REFERS TO THE CHAIN OF INSTITUTIONS THROUGH WHICH COMPUTING RESOURCES PASS FROM SUPPLIER TO DISTRIBUTOR TO ENO USER: ASSIGNING MANAGERIAL RESPONSIBILITIES TO APPROPRIATE UNITS. NERCOMP OF IS PRESENTLY MODIFYING ITS LINE-SWITCHED NETWORK TO A MESSAGE-SWITCHED NETWORK. RATIONALE FOR THIS CHANGE AND THEIR USE OF NIMPHS (NETWORK INTERFACE MESSAGE PROCESSING HOSTS) CERTAINLY NERCOMP'S GEOICATION TO THE ISSUES OF NETWORK MANAGEMENT AND ORGANIZATION HAS CONTRIBUTED TO THE SUCCESS OF

THIS REGIONAL NETWORK. (ALSO UNDER S.I)

VIES, 0, W., K. A. BARTLETT, R. A. SCANTLEBURY, P. T. WILKINSON, A DIGITAL COMMUNICATION NETWORK FOR COMPUTERS GIVING RAPID RESPONSE AT REMOTE TERMINALS, (NATIONAL PHYSICAL LAB., TEODINGTON, (ENGLAND)), PROCECEINGS OF THE ACM SYMPOSIUM ON OPERATING SYSTEM PRINCIPALES, (GATLINBURG, TN. OCTOBER 1967), 1967, 7 REFS OAVIES. O. W..

SOME OF THE EARLY THOUGHTS CONCERNING THE DESIGN AND OEVELOPMENT OF COMMON-CARRIER DATA NETWORKS ARE PRESENTED IN THIS PAPER. A DESIGN FOR SUCH A NETWORK IS PROROSED. THE TECHNICAL ASPECTS OF THE NETWORK AND THE RANGE OF COMMUNICATIONS REGUIREMENTS IT IS DESIGNED TO MEET ARE DEALT WITH PRIMARILY. (ALSO UNDER 3.2.2.2)

DAVIES, 0. W., THE PRINCIPLES OF A DATA COMMUNICATION NETWORK FOR COMPUTERS AND REMOTE PERIPHERALS, (NATIONAL PHYSICAL VIES, 0. W., THE PRINCIPLES OF A DATA COMMUNICATION NETWORK FOR COMMUTERS AND REMOTE PERIPHERALS, (NATIONAL PHYSICAL LAB., TEODINGTON, (SNGLAND)). INFORMATION PROCESSING 68: PROCEEDINGS OF IFIP CONGRESS 1968, VOLUME 2--HARDWARE, APPLICATIONS, (EDINBURGH, (SCOTLAND), AUGUST S-ID, 1968), NORTH-HOLLAND PUBLISHING CO., AMSTEROAM, (NETHERLANDS), 1969, IFIP CONGRESS PROCEEDINGS, (LC 65-24118), P 709-714, 4 REFS

THIS PROPOSAL FOR A NATIONAL PHYSICS LABORATORY COMPUTER NETWORK IN THE UNITED KINGDOM PRESENTS A DESIGN SIMILAR IN MANY RESPECTS TO THE ARPA NETWORK.

OELL, F. R. E., FEATURES OF A PROPOSED SYNCHRONOUS DATA NETWORK, (UNITED KINGDOM POST OFFICE, LONDON, OEPT, OF TELECOMMUNICATIONS OEVELOPMENT), JACKSCN, PETER E., PROCEEDINGS.ACM/IEEE SECOND SYMPOSIUM ON PROBLEMS IN THE OPTIMIZATION OF OATA COMMUNICATION SYSTEMS, (PALO ALTO, CA. OCTOBER 20-22, 1971), 1971, IEEE CAT-71CS9-C, P S0-S7

THIS PROPOSAL DESCRIBES A DATA COMMUNICATIONS NETWORK CAPABLE OF EITHER CIRCUIT-SWITCHING OR PACKET-SWITCHING, DATA RATES AND FORMATS ARE DESCRIBED, THE USE OF PULSE CODE MODULATION IN THE LOCAL AND MAIN NETWORKS IS CONSIDERED, THE PACKET FORMAT IS SPECIFIED, AND ECONOMIC CONSIDERATIONS ARE LISTED, (ALSO UNDER 3.2.2)

DENES, JOHN E., BROOKNET--AN EXTENDED CORE STORAGE CRIENTED NETWORK OF COMPUTERS AT BROOKHAVEN NATIONAL LABORATORY, (BROOKHAVEN NATIONAL LAB., UPTON, NY, GEPT. OF APPLIEG MATHEMATICS), INFORMATION PROCESSING 68: PROCEEDINGS OF FIFD CONGRESS 1968. VOLUME 2--HAROWARE, APPLICATIONS. (EDINBURGH, ISCOTLAND), AUGUST S-ID, 1968), NORTH-HOLLAND PUBLISHING CO., AMSTERDAM, (NETHERLANDS), 1969, IFIP CONGRESS PROCEEDINGS, (LC 65-24110), P S28-32, 4 REFS

BRCCKNET IS A CENTRALIZED NETWORK IN WHICH A CDC6600 IS USED TO COMMUNICATE WITH AND SUPPORT A NUMBER OF MINI COMPUTERS IN A LABORATCRY ENVIRONMENT. AT THE TIME OF THIS PAPER, BROKNET HAD ONLY TWO POP-B'S CONNECTED TO THE 6600. ONE OF THESE WAS BEIND USED TO SUPPORT HAROWARE AND SOFTWARE CHECKDUT FOR THE NETWORK'S SUPPORT MECHANISM IN THE 6600. TWO SIGMA 7'S THAT SUPERVISE AND COLLECT DATA FROM ON-LINE EXPERIMENTS AND DRIVE CRT DISPLAYS WERE BEING PREPARED 6CR CONNECTION TO THE 6600.

DIFFLEY, MICHAEL W., DESIGN CONSIDERATIONS OF A PROPOSED LOCAL AREA COMPUTER NETWORK EMPHASIZING THE NEEDS OF THE HEALTH SCIENCES, MICHAEL #*, DESIGN CONSIDERATIONS OF A PROPOSED LUCAL AREA COMPUTER NEIMORK EMPHASIZING THE NEEDS OF THE HEAL SCIENCES, MINNESDTA, UNIV, OF, MINNEAPOLIS), GATA RETWORKS: ANALYSIS AND DESIGN, THIRD DATA COMMUNICATIONS SYMPOSIUM, (ST. PETERSBURG, FL. NOVEMBER 13-15, 1973), INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YORK, 1973, IEEE CN-73-CHOB28-4C, P 97-103, S REFS (ANNOTATION UNDER A.2.1)

- OIXON, WILFRID J., DATA AND COMPUTING FACILITIES. (CALIFORNIA, UNIV. OF, LOS ANGELES), GREENBERGER, MARTIN, JULIUS ARDNOFSKY, JAMES L. MCKENNEY, WILLIAM F. MASSY, NETWORKS FOR RESEARCH AND EDUCATION: SHARING COMPUTER AND INFORMATICN RESOURCES NATIONWIDE, MIT PRESS, CAMBRIDGE, MA, 1973, P IOS-I14 (ANNOTATION UNDER 4-2-0)
- ELLIS, T. D., E. F. HARSLEM, JOHN F. HEAFNER, K. U. UNCAPHER, ARPA NETWORK SERIES: I. INTRODUCTION TO THE ARPA NETWORK AT RAND AND TO THE RAND VIDED GRAPHICS SYSTEM, RAND CORP., SANTA MONICA, CA, SEP 71, RC R-664-ARPA, ARPA DAHC-IS-67-C-DI4I, IAD-733 049), 48P, 32 REFS

THE FIRST SECTION OF THIS REPORT PROVIDES A GENERAL DVERVIEW OF THE ARPANET. A SECOND SECTION DESCRIBES THE RAND VIDED GRAPHICS SYSTEM AND ITS INTERFACE TO THE ARPANET THROUGH AN 18M 1800 CONNECTED TO AN IMP IINTERFACE MESSAGE PROCESSOR). (ALSO UNDER 3.3.2)

FARBER, CAVID J., JULIAN FELOMAN, FRANK R. HEINRICH, MARSMA D. HOPWDOD, KENNETH C. LARSON, OONALD C. LOOMIS, LAMERNCE A. ROWE, THE DISTRIBUTED COMPUTING SYSTEM, ICALIFORNIA, UNIV, DF, IRVINE, DEPT, DF INFORMATIDN AND COMPUTER SCIENCE,

A SHORT DESCRIPTION OF THE DISTRIBUTED COMPUTING SYSTEM AND ITS IMPLEMENTATION IS PRESENTED IN THIS PAPER. A SPECTS OF THIS "RELIABLE, FAIL-SOFT INFORMATION UTILITY' DESCRIBED INCLUDE BASIC ORGANIZATION, COMMUNICATION LINKS, RESIDENT SYSTEM SERVICES, PROTECTION OF THE SYSTEM AND RESOURCE ALLOCATION.

FEENEY, GEORGE J., CONCENTRATION IN NETWORK OPERATIONS. (GENERAL ELECTRIC CO.). GREENBERGER, MARTIN, JULIUS ARONOFSKY, JAMES L. MCKENNEY, WILLIAM F. MASSY, NETWORKS FOR RESEARCH AND EDUCATION: SHARING COMPUTER AND INFORMATICN RESOURCES NATIONNIDE. MIT PRESS, CAMBRIDGE, MA, 1973, P. 182-188, I REFS

THE AUTHOR DESCRIBES THE GENERAL ELECTRIC NETWORK INCLUDING GEOGRAPHIC COVERAGE, MAJOR FEATURES AND PLANS FOR EXPANSION. HE ALSO DISCUSSES SOME CENTRAL ISSUES IN THE EVOLUTION OF COMPUTING IN HIGHER EDUCATION.

FISHER, C. R., R. L. SLIGH, THE CATRAN NETWORK, IOATA TRANSMISSION CO., VIENNA, VA), JACKSON, PETER E., PROCEEDINGS. ACM/IEEE SECOND SYMPOSIUM ON PROBLEMS IN THE OPTIMIZATION OF OATA COMMUNICATION SYSTEMS, IFALO ALTG. CA, OCTOBER 20-22, 1971), 1971, IEEE CAT-71CS-9-C, P 65-72

THE PLANNED DATRAN NATIONWIDE ALL DIGITAL SWITCHED NETWORK DESIGNED TO LINK SUBSCRIBER TERMINALS IN 35 METROFOLITAN AREAS IS DISCUSSED. THE SYSTEM DESIGN AND SERVICES AND A NETWORK SIMULATOR ARE BRIEFLY DESCRIBED. THE SIMULATOR IS USED TO EVALUATE THE PROJECTED PERFORMANCE OF THE NETWORK RELATIVE TO DESIGN SPECIFICATIONS. LALSD UNDER 2.1.2)

FLETCHER, J. G., LAWRENCE RADIATION LABORATORY DCTOPUS SYSTEM, (CALIFORNIA, UNIV, OF, LIVERMORE, LAWRENCE RADIATION LAB.),

PROCEEDINGS OF INVITATIONAL WORKSHOP ON COMPUTERS. OCT 68, P 225-231

THIS IS AN INTRODUCTION TO SDME FEATURES OF THE LAWRENCE RADIATION LABORATORY (LRL) OCTOPUS NETWORK, WHICH INCLUGES CDC 6600'S AND A CDC 7600. CDNTROL IS INITIALLY CENTRALIZED IN A DEC PDP-6, BUT PLANS CALL FOR THE DISTRIBUTION OF CONTROL TO A NETWORK OF PDP-9'S (A FACT NOW) EACH CAPABLE OF SERVING ISB TELETYPES AND ALLOWING EACH TELETYPE ACCESS TO ANY GOC MACHINE. FILE CONTROL IS CENTRAL AND IS PERFORMED BY THE PDP-6, THE NETWORK CONTAINS A NUMBER DF STORAGE OEVICES, BUT THE MOST INTERESTING IS THE IBM PHOTOSTORE, ONE TRILLION BIT. S SEC ACCESS PER 4100 WORDS, NON ERASABLE, TFE FILE STRUCTURE IS SIMILAR TO THAT OF MULTICS, WITH ROOTS AND OIRECTORIES WITHIN DIRECTORIES. LRL HAS CRITICAL SECURITY PROBLEKS AND HAS OEVELOPED SOME INTERESTING MEASURES TO PROTECT FILES. THE AUTHOR SUGGESTS APPLICATION OF THE CONCEPTS EMBDDIED IN OCTOPUS TD ANY DISTRIBUTED NETWORK OF HETEROGENEDUS COMPUTERS.

- FRANK, H., I. T. FRISCH, PLANNING COMPUTER-COMMUNICATION NETWORKS, (NETWORK ANALYSIS CDRP., GLEN COVE, NY), ABRAMSON, NDRMAN, FRANKLIN F. KUG, COMPUTER-COMMUNICATION NETWORKS, PRENTICE-HALL INC., ENGLEWOOD CLIFFS, NJ, 1973, COMPUTER APPLICATIONS IN ELECTRICAL ENGINEERING SERIES, ITKSI02.S,A283), P I-28, 20 REFS (ANNOTATION UNDER I.3)
- RUCEEL, KURT, SIDNEY HELLER, TWO DISSIMILAR NETWORKS IS MARRIAGE POSSIBLE?, (BROOKHAVEN NATIONAL LAB., UPTON, NY, DEPT, OF APPLIED MATHEMATICS). PROCEEDINGS OF THE 197S SYMPOSIUM-COMPUTER NETWORKS: TRENDS AND APPLICATIONS, (GAITHERSBURG, MO, JUNE 18, 1975), INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YORK, 197S, 7SCHO973-BC, P 19-24, 10 REFS IAANOTATION UNCER 3.3,2)
- GABLER, HERMANN G., THE GERMAN EDS NETWORK, (DEUTSCHE BUNDESPOST, DARMSTADT, (WEST GERMANY), FERNMELDETECHNISCHES ZENTRALAMT),

JACKSON PETER E., PROCEEDINGS. ACM/IEEE SECOND SYMPDSIUM DN PROBLEMS IN THE DPTIMIZATION DF DATA COMMUNICATION SYSTEMS. IPALD ALTO, CA. OCTOBER 20-22, 1971), 1971, IEEE CAT-7ICS9-C, P 80-85, 8 REFS

A PLANNED ELECTRONIC DATA SWITCHING SYSTEM FOR DATA COMMUNICATIONS IN GERMANY IS DESCRIBED. A STDRED PROGRAM SWITCHING SYSTEM IS DESCRIBED AND JUSTIFIED. FREQUENCY DIVISION MULTIPLEXING, RATHER THAN DIGITAL TECHNIQUES, ARE USED FOR CHANNELS BETWEEN SWITCHING CENTERS. (ALSO UNDER 3.2.0)

GILLERMAN, LIDNEL, A MULTI-FACETED COMMERCIAL COMPUTER NETWORK, IMCOONNELL DOUGLAS AUTOMATION CO., LONG BEACH, CA, COMPUTER COMMUNICATIONS), COMPCON 73 - SEVENTH ANNUAL IEEE COMPUTER SOCIETY INTERNATIONAL CONFERENCE, DIGEST OF PAPERS. *COMPUTING NETWORKS FROM MINIS THROUGH MAXIS -- ARE THEY FOR REAL?*, ISAN FRANCISCO, CA, FEBRUARY 27-28, MARCH I, 1973), INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS INC., NEW YDRK, 1973, (LC 68-1628), P 23I-233

A GENERAL DESCRIPTION OF THE MCOONNELL DOUGLAS COMMERCIAL COMPUTER NETWORK AND HAROWARE AND SOFTWARE CAPABILITIES OF THE VARIOUS LINKS ARE GIVEN, SERVICES PROVIDED BY THIS NETWORK INCLUDE CONVERSATIONAL BATCH SERVICE, TEXT EDITING, HOSPITAL INFORMATION, ON-LINE DATA COLLECTION AND INFORMATION MANAGEMENT.

GILLESPIE, ROBERT, UNIVERSITY RELATIONS WITH NETWORKS: FORCING FUNCTIONS AND FORCES, (WASHINGTON, UNIV. OF, SEATTLE), GREENBERGER, MARTIN, JULIUS ARDNOFSKY, JAMES L. MCKENNEY, WILLIAM F. MASSY, NETWORKS FOR RESEARCH AND EDUCATION: SHARING COMPUTER AND INFORMATION RESOURCES NATIONWIDE, MIT PRESS, CAMBRIDGE, MA, 1973, P. 240-244

THE AUTHOR DISCUSSES, IN THE CONTEXT OF THE COMPUTER CENTER AT THE UNIVERSITY OF WASHINGTON, MAJOR ISSUES AND FORCES IPOSITIVE AND NEGATIVE) AFFECTING UNIVERSITY COMPUTING CENTERS. HE CONCLUDES WITH A RECOMMENDED LIST OF GUESTIONS TO BE STUDIED BY THDSE FACED WITH PROBLEMS OF NETWORKS AND UNIVERSITY RELATIONSHIPS, (ALSO UNDER 1.5, S.O)

HANNA, WAYNE L., THE UCS TELEPROCESSING NETWORK, IUNITED COMPUTING SYSTEMS INC., KANSAS CITY, MO), COMFCON 73 - SEVENTH ANNUAL IEEE COMPUTER SOCIETY INTERNATIONAL COMFERENCE, DIGEST OF PAPERS, *COMPUTING NETWORKS FROM MINIS THROUGH MAXIS -- ARE THEY FOR REAL?*, (SAN FRANCISCO, CA, FEBRUARY 27-28, MARCH I, 1973), INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS INC., NEW YDRK, 1973, ILC 68-1628), P 97-100

UNITED COMPUTING SYSTEMS, INC. HAS DEVELOPED A NATIONAL COMPUTER-COMMUNICATIONS NETWORK IUNINET) TO SUPPORT THE TIME-SHARING AND REMOTE BATCH REQUIREMENTS OF THEIR COMPUTER SERVICE COMPANY. THIS PAPER DESCRIBES THE NETWORK'S DBJECTIVES, DEVELOPMENT, HARDWARE AND SOFTWARE CONFIGURATION AND PLANS FOR FUTURE DEVELOPMENTS.

HARGRAVES, ROBERT F., JR., THOMAS E., KURTZ, THE OARTMOUTH TIME SHARING NETWORK, (OARTMOUTH CDLLEGE, HANDVER, NH), ABRAMSON, NORMAN, FRANKLIN F. KUO, COMPUTER-COMMUNICATION NETWORKS, PRENTICE-HALL INC., ENGLEWOOD CLIFFS, NJ, 1973, COMPUTER APPLICATIONS IN ELECTRICAL ENGINEERING SERIES, (TKSI02,S,A2B3), P 423-456

A GENERAL DESCRIPTION OF THE DARTMOUTH TIME SHARING NETWORK IS PRESENTED. THE HISTORY OF THE NETWORK, DEVELOPMENT TO THE PRESENT, APPLICATIONS AND SERVICES OF THE NETWORK, TECHNICAL DESCRIPTION DF THE SYSTEM, DESCRIPTION OF THE COMMUNICATIONS SYSTEM AND A SHORT SECTION ON THE BENEFITS OF STANDARDS IN NETWORK OPERATION ARE ALSO DIVER 5.5)

HARGRAVES, ROBERT F., JR., DEVELOPMENT OF COMMUNICATION REDUIREMENTS FOR THE DARTMOUTH TIME SHARING SYSTEM, (DARTMOUTH COLLEGE, HANDVER, NH). COMPCON 73 - SEVENTH ANNUAL IEEE COMPUTER SOCIETY INTERNATIONAL CONFERENCE. DIGEST DF PAPERS. *COMPUTING NETWORKS FROM MINIS THROUGH MAKIS -- ARE THEY FOR REAL?* (SAN FRANCISCO, CA, FEBRUAR 27-28, MARCH 1, 1973), INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS INC., NEW YORK, 1973, (LC 68-1628), P 15-18 3.1.0 GENERAL DESCRIPTION

THE DARTHOUTH TIME SHARING SYSTEM HAS GROWN TO REACH 40 LOCATIONS AND ACCOMMODATES ISB PORTS. THIS PAPER DESCRIBES THE GROWTH OF THE COMMUNICATIONS REGUIREMENTS FOR THE DARTHOUTH CENTER. SOME BACKGROUND INFORMATION ON THE SYSTEM, ITS DEVELOPMENT SINCE 1967. USE OF THE BELL TELEPHONE NETWORK, AND THE COMMUNICATIONS REQUIREMENTS ARE DESCRIBED. INCLUDED ARE THE USE OF FREQUENCY-DIVISION MULTIPLEXING, MULTIPLE-CROPP MULTIPLEXING, SUBCHANNEL SHARING, MAINTENANCE PROCEDURES, AND THE OATREX NETWORK. FUTURE PLANS FOR THE DETWORK ARE ALSO INCLUDED.

HARVEY, SAMUEL B., THE CONCEPT OF THE SINGER WORLOWIDE COMPUTER NETWORK: (SINGER CD., NEW YORK), COMPCON 73 - SEVENTH ANNUAL IEEE COMPUTER SOCIETY INTERNATIONAL COMPERENCE. DIGEST OF PAPERS. (COMPUTING NETWORKS FROM MINIS THROUGH MAXIS -- ARE THEY FOR REAL?: (SAN FRANCISCO, CA. FEBRUARY 27-28, MARCH I, 1973), INSTITUTE OF ELECTRICAL AND ELECTRONIC ENSINEERS INC., NEW YORR, 1973, (LC 60-1028), P 187-188 (ANNOTATION UNDER 1.6)

L., JR., MAC INTEGRATED MANAGEMENT SYSTEM (MACIMS), (DEPARTMENT OF THE AIR FORCE, SCOTT AFB, IL, MILITARY AIRLIFT COMMAND), AIRLIFT COMMAND), INTERDISCIPLINARY CONFERENCE ON MULTIPLE ACCESS COMPUTER NETWORKS, (AUSTIN, TX, APRIL 20-22, 1970), APR 70, P -I-I-2-I-

THIS IS A NON-TECHNICAL DESCRIPTION OF THE SYSTEM DEVELOPMENT PLAN AND THE DEVELOPMENT STATUS OF THE MILITARY AIRLIFT COMMAND'S INTEGRATED MANAGEMENT SYSTEM (MACIMS).

NCH, R. R., D. F. FOSTER, TOWARD AN INCLUSIVE INFORMATION NETWORK. (GENERAL ELECTRIC CO., BETHESDA, MO). AFIPS CONFERENCE PROCEEDINGS. VOLUME 41, PART II, 1972, FALL JOINT COMPUTER CONFERENCE, (ANAHEIM, CA, BECEMBER S-7, 1972), AFIPS PRESS, MONTVALE, NJ, 1972, (LC SS-44701), P 1235-1241, B REFS

AN OVERALL FUNCTIONAL DESCRIPTION IS GIVEN FOR THE GENERAL ELECTRIC NETWORK, THE NETWORK IS CURRENTLY (1975) THE Worlo's largest computer network, serving an international clientele.

HERZOG, BERTRAM, COMPUTER NETWORKS, MERIT COMPUTER NETWORK, ANN ARBOR, MI, MAY 72, NCN 0572-TP-8, 21P, 10 REFS

THIS OCCUMENT CONTAINS A GENERAL DESCRIPTION OF THE MERIT COMPUTER NETWORK WHICH INTERCONNECTS THE COMPUTER CENTERS OF

HERZOG. BERTRAM. MERIT COMPUTER NETWORK.

BERTRAM, MERIT COMPUTER NETWORK. (MICHIGAN, UNIV. OF, ANN ARBOR). 1. Randall, courant computer science symposium 3. computer networks. (november 30-december 1. 1970). prentice-hall Englewood Cliffs, nj. 1972. prentice-hall series in automatic computation. (lc 79-39373), p 65-48 RUSTIN.

A BRIEF INTRODUCTION TO THE MERIT NETWORK IS PROVIDED AND THE OBJECTIVES OF THE PROJECT ARE STATED, ONE INTERESTING OBJECTIVE IS TO PROVIDE A MODEL TO STUDY THE ADMINISTRATIVE PROBLEMS ASSOCIATED WITH THE EXCHANGE OF COMPUTING ODLLARS IN A NETWORK COMMUNITY.

HIRDTA, KENICHIRD, MASAD KATO, YUTAKA YDSHIDA, A DESIGN OF PACKET SWITCHING SYSTEM, (NTT PUBLIC CORP., TOKYD. (JAPAN11

THE SECCHO INTERNATIONAL CONFERENCE ON COMPUTER COMMUNICATION, COMPUTER COMMUNICATION TODAY AND UP TO 1985, (STOCKHOLM, (Sweden), AUGUST 12-144 1974), INTERNATIONAL COUNCIL OF ICCC, 1974, P ISI-162, 6 REFS

THE AUTHORS DISCUSS DESIGN DBJECTIVES FOR A DIGITAL DATA NETWORK IN JAPAN, FEATURES DF PACKET-SWITCHING, INTEGRATION OF PACKET SWITCHING AND CIRCUIT SWITCHING, PACKET FORMATS AND DATA LINKS ARE ALL DESCRIBED WITH DIRECTION TOWARDS THIS SPECIFIC NETWORK, AS A RESULT DF THIS WORK, STUDIES CONCERNING VARIOUS GRADES OF INTEGRATION OF PACKET AND CIRCUIT SWITCHING CONTINUE IN JAPAN,

HOWELL, R. H., THE INTEGRATED COMPUTER NETWORK SYSTEM. (BRISTOL, UNIV, OF, (ENGLANO)), WINKLER, STANLEY, COMPUTER COMMUNICATIONS: IMPACTS AND IMPLEMENTATION. THE FIRST INTERNATIONAL CONFERENCE ON COMPUTER COMMUNICATION, (WASHINGTON, DC, DCTOBER 24-26, 1972), INTERNATIONAL CONFERENCES ON COMPUTER COMMUNICATION, 1972, ICCC 72-CHC-690-BC, NSF GJ-33239, P 214-219

A COMPUTER NETWORK LINKING THE UNIVERSITIES OF SOUTH WEST ENGLAND AND SOUTH WALES IS BRIEFLY DESCRIBED.

NES, D. R., J. L. ALTY, AN INTRA UNIVERSITY NETWORK, (LIVERPDOL, UNIV, OF, (ENGLAND), COMPUTER LAB.), Fourth data communications symposium, network structures in an evolving dperational environment, (ouebec city, (canada), october 7-9, 1973), institute de electrical and electronics engineers inc, new york, 1975, leet 35-chiodol-7-data, p INNES. D. --1-13: 6 REFS

LIVERPOOL UNIVERSITY HAS DEVELOPED A SYSTEM LINKING VARIOUS OF ITS DEPARTMENT COMPUTERS TO THE CENTRAL FACILITIES OF THE COMPUTER LABORATORY, MOTIVATIONS FOR ESTABLISHING THE NETWORK ARE DESCRIBED AND A FULL DISCUSSION OF THE STEPS TAKEN TO ATTAIN A HIGH LEVEL OF RELIABULITY EARLY IN THE OPENATION OF THE NETWORK IS INCLUDED.

JENNINGS, MICHAEL A.. COMPUTER SERVICES IN THE OREGON DEPARTMENT DE HIGHER EDUCATION. (DREGON DEPT, DE HIGHER

MULTINGS, MULTINGE AS COMPOSEN SERVICES IN THE OREGON DEPARTMENT OF HIGHER EDUCATION. (DREGON DEPT) OF HIGHER FOUCATION) FACTS AND FUTURES, WHAT'S HAPPENING NOW IN COMPUTING FOR HIGHER EDUCATION, PROCEEDINGS OF THE EDUCOM FALL CONFERENCE, (PRINCETON, NJ, OCTOBER 9-11, 1973), INTERUNIVERSITY COMMUNICATIONS COUNCIL INC, (EDUCOM), PRINCETON, NJ, 1974, (LC 74-70222), P 83-99

IN DROER TO MEET THE ADMINISTRATIVE AND ACADEMIC COMPUTING NEEDS OF THE OREGON DEPARTMENT OF HIGHER EDUCATION, A POLICIES, AND THE INKING NIME PUBLIC INSTITUTIONS IS PLANNED. THIS ARTICLE DISCUSSES AT A MANAGERIAL LEVEL COMPUTING NEEDS, POLICIES, AND THE IMPLEMENTATION AND FINANCIAL PLANS FOR THIS NETWORK. (ALSD UNDER S+0)

KAPRIELIAN, ZOHRAB A., THE POLITICS OF CODPERATION, (SOUTHERN CALIFORNIA, UNIV, DF, LDS ANGELES), GREENBERGER, MARTIN, JULIUS ARDNDFSKY, JAMES L, MCKENNEY, WILLIAM F, MASSY, NETWORKS FDR RESEARCH AND EDUCATION: SHARING COMPUTER AND INFORMATICN RESOURCES NATIONWIDE, MIT PRESS, CAMBRIDGE, MA, 1973, P 207-211

A DESCRIPTION OF THE RESOURCE-SHARING PRDJECT AT THE UNIVERSITY OF SOUTHERN CALIFORNIA IS FOLLDWED BY COMMENTS DN THE DEGANIZATIONAL AND POLITICAL CONSIDERATIONS OF COMOUTER SHARING, THE AUTHOR CONCLUDES THAT THE POTENTIAL MUTUAL BENEFITS OF RESOURCE SHARING OUTWEIGH THE POSSIBLE DISADVANTAGES. (ALSO UNDER 1.6)

karp. p. w., Origin. Development and current status of the arpa network, (stanford univ., ca), Compcon 73 - Seventh Annual IEEE COMPUTER SOCIETY INTERNATIONAL COMFERENCE. DIGEST OF PAPERS, *COMPUTING Networks From #INIS through maxis -- are they for real?*. (san Francisco, ca, february 27-28, march 1, 1973), institute of electrical and electronic ensineers inc., New york, 1973, (LC 68-1628), p 49-52, 19 refs

THIS ARTICLE PROVIDES A WELL-WRITTEN, ALTHOUGH SOMEWHAT DATED, DVERVIEW AND STATUS REPORT FOR THE ARPA NETWORK AS OF THE BEGINNING OF 1973, SEVERAL EXAMPLES OF NETWORK USAGE ARE BRIEFLY MENTIONED.

KARP, P. M., PROPDSAL FOR THE DEVELOPMENT OF A SECURE PILOT NETWORK FOR THE WORLD-WIDE MILITARY COMMAND AND CONTROL System (www.ccs) based on the Arpa computer network technology, mitre corp., washington, oc, 7 jul 71, mc mtr-6019, 41P, 13 REFS

THIS DOCUMENT CONTAINS A PROPOSAL FOR THE DESIGN AND DEVELOPMENT OF A SECURE PILOT INTER-COMPUTER NETWORK FOR THE WORLD WIDE MILITARY COMMAND AND CONTROL SYSTEM (WWMCCS) BASED ON THE TECHNOLOGY OF THE ARPA NETWORK. IT IS SUGGESTED THAT THE APPLICABILITY OF ARPA-DEVELOPED PRINCIPLES BE VERIFIED FOR THE WWMCCS VIA AN EXPERIMENTATION PROGPAM NO THE ARPA NETWORK ITSLEF PRIDE TO THE IMPLEMENTATION OF THE SECURE PILOT NETWORK. THIS PROGRAM CENTERS ON THE EVALUATION OF USER-DRIENTED FEATURES AND EXPERIMENTS WITH DISTRIBUTED DATA HANDLING.

AGASSE, J. P., G. ARTAUO, J. P. CABANEL, ARAMIS--A PROCESSING NETWORK WITH USER DATA BASES INTERACTIVE SYSTEMS, (UNIVERSITE PAUL SABATIER, TOULOUSE, (FRANCE), CENTRE D'INFORMATIDUE), COMPCON FALL '75, ELEVENTH IEEE COMPUTER SOCIETY CONFERENCE. HOW TO MAKE COMPUTERS EASIER TO USE, DIGEST OF PARERS, (WASHINGTON, OC, SEPTEMBER 9-11, 1975), INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YORK, 1975, IEEE 7SCH098B-6C, P 213-216, 7 REFS LAGAS SE .

IN THIS PAPER, SEVERAL ASPECTS OF HANOLING DISTRIBUTED DATA BASES ON A MINICOMPUTER NETWORK ARE DISCUSSED. A PROPOSED CISTRIBUTED RESOURCE MANAGEMENT SYSTEM IS DESCRIBED. ALTHOUGH THE PAPER IS SOMEWHAT DIFFICULT TO UNDERSTAND, USEFUL IDEAS ARE PRESENTED.

BIBLINGRAPHY

LANCE, G, N,, AUSTRALIAN COMPUTING NETWORK, (COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANISATION, (AUSTRALIA), COMPUTING RESEARCH SECTION). OATAMATION, VOL II, ISSUE 3, MAR 65, P 31-33

IN 1965 AUSTRALIA WAS SETTING UP A NATIONAL COMPUTING NETWORK. THIS IS A GENERAL DISCUSSION LACKING MUCH OFTAIL.

LAWRENCE, D. E., A PROPOSED COMPUTER NETWORK FOR THE AUSTRALIAN NATIONAL UNIVERSITY, AUSTRALIAN NATIONAL UNIV. Canberra, computer centre, aug 71, anu-cc tr-30, 44P, 2 Refs

A PROPOSAL FOR A CENTRALIZED REGIONAL NETWORK IS PRESENTED. IT MOST CLDSELY RESEMBLES THE TRIANGLE UNIVERSITIES CCMPUTER CENTER (TUCC) NETWORK WITH THE ADDITION OF A FEW ATTRACTIVE FEATURES FOR DEVICE SUPPORT AND AUTOMATIC LCAD-SHARING. IMPRESSIVE FIGURES FOR PROJECTED PERFORMANCE ARE GIVEN AND A DETAILED DESIGN OF NETWORK COMPONENTS IS PROVIDED,

LEGATES, JDHN C., THE ARPA COMPUTER NETWORK--TECHNICAL ASPECTS IN NONTECHNICAL LANGUAGE, INTERUNIVERSITY COMMUNICATIONS COUNCIL INC. (EDUCOM), PRINCETON, NJ, IO JAN 72, 26P

THE AUTHOR EXPLAINS THE TECHNICAL FEATURES OF THE ARPA NETWORK IN NONTECHNICAL LANGUAGE AND DISCUSSES SOME OF THE POSSIELE BENEFITS THAT IT CAN BRING TO A PCTENTIAL USER, HE ADDRESSES PERFORMANCE REQUIREMENTS, DESIGN, RELIABLITY, THE MOST, SERVICES, AND COSTS AND TYPES OF CONNECTIONS,

LEGATES, JOHN, THE LESSONS OF EIN, (EOUCATIONAL INFORMATION NETWORK), EOUCOM BULLETIN, VOL 7, ISSUE 2, SUMMER 72, P IB-20, I REFS

THE CONCEPTION AND IMPLEMENTATION OF THE EQUCATIONAL INFORMATION NETWORK (EIN) ARE DESCRIBED PROVIDING BACKGROUND FOR THE AUTHOR'S DISCUSSION OF EIN'S PROBLEMS AND PERFORMANCE. THE CONCLUSION ENUMEDATES THE LESSONS OF THE EIN EXPERIENCE. (ALSO UNDER 4.0)

INDN, WILLIAM J,, RONALD C, BARRETT, JOHN T, SPIES, A MINI-COMPUTER RESEARCH NETWORK, (NDRTHWESTERN UNIV., EVANSTON, IL, GEPT, GF COMPUTER SCIENCES, HUGHES AIRCRAFT CO,, CULVER CITY, CA), COMPCON 73 - SEVENTH ANNUAL IEGE COMPUTER SOCIETY INTERNATIONAL COMPERENCE, DIGEST OF PAPERS, *COMPUTING NETWORKS FROM MINIS THROUGH MAXIS -- ARE THEY FOR REAL7*, (SAN FRANCISCO, CA, FEBRUARY 27-20, MARCH I, 1973), INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS INC., NEW YORK, 1973, (LC 68-1620), P 191-194, 2 REFS LENNON

A DESCRIPTION IS GIVEN OF A STAR SHAPED NETWORK OF MINICOMPUTERS AT NORTHWESTERN UNIVERSITY, CHARACTERISTICS OF THE NETWORK ARE GIVEN. INCLUDING PROSPAMING CONSIDERATIONS, INTERFACE REGUIREMENTS, HARDWARE FACILITIES, GENERAL PERFORMANCE OF THE SYSTEM, AND FUTURE GOALS OF THE PROJECT.

WILLIAM J., A USER DRIENTED MINI-COMPUTER NETWORK, (NORTHWESTERN UNIV., EVANSTON, IL, DEPT. OF COMPUTER SCIENCES),

SCIENCES), COPPCCH FALL *75. ELEVENTH IEEE COMPUTER SOCIETY CONFERENCE. HOW TO MAKE COMPUTERS EASIER TO USE. DIGEST OF PAPERS, (WASHINGTON, OC, SEPTEMBER 9-11, 1975), INSTITUTE DF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YORK, 1975, IEEE 75CH098B-6C, P 133-136, 4 REFS

DESCRIBED IS THE COMPUTER SCIENCE LABORATORY AT THE TECHNOLOGICAL INSTITUTE OF NORTHWESTERN UNIVERSITY WHICH IS A STAR-SHAPEO NETWORK OF REAL-TIME MINICOMPUTERS, PREODMINATELY DEC PDP-B'S, (ALSO UNDER 1.1)

LESSER, RICHARD C., ANTHONY RALSTON, THE DEVELOPMENT DF A MULTI-CAMPUS REGIONAL COMPUTING CENTER, (NEW YORK, STATE UNIV, OF, ALBANY). INFORMATICN PROCESSING 68: PROCEEDINGS DF IFIP CONGRESS 1968. VOLUME 2---MARDWARE, APPLICATIONS, (EDINBURGH, (SCOTLAND), AUGUST S-IO, 1968), NORTH-HOLLAND PUBLISHING CD., AMSTERDAM, (NETHERLANDS), 1969, IFIP CONGRESS PROCEEDINGS, (LC 65-24118), P 939-944

A MULTI-CAMPUS REGIONAL COMPUTING CENTER WHICH IS DEVELOPED ARDUND A CENTRALIZED NETWORK WITH DNE VERY LARGE COMPUTER AND A NUMBER OF REMOTE BATCH AND INTERACTIVE TERMINALS DISTRIBUTED AMDNG THE PARTICIPATING CAMPUSES IS DESCRIBED. A RATIONALE FOR REGIONAL COMPUTING IS PRESENTED. BUT FEW PROBLEMS RELATING TO QUESTIDNS OF ECONOMICS, MANAGERIAL ORGANIZATION DR DEFATION OF SUCH NETWORKS ARE DISCUSSED.

JTHER, W. J., CONCEPTUAL BASES OF CYBERNET, (CONTROL DATA CORP.). Rustin, randall, courant computer science symposium 3, computer networks, (november 30-december 1, 1970), prentice-hall Inc., englewood cliffs, nj. 1972, frentice-hall scies in automatic computation, (LC 79-39373), p 111-146 LUTHER. W

COC'S CYBERNET IS THE CENTRAL TOPIC OF THIS PAPER, BUT MUCH OF THE MATERIAL IS APPLICABLE TO OTHER NETWORKING EFFORTS, A SCHEME FOR CLASSIFYING NETWORK USERS IN RELATION TO THEIR NETWORK DEMANDS IS DESCRIBED, ALONG WITH SOME INTERESTING COMMENTS ON NETWORK ACCOUNTING, ACCESSIBILITY, AND RELIABLITY. CYBERNET ITSELF IS A DISTRIBUTED NETWORK DF COC 6600'S AND SERVICES INTERACTIVE AND REMOTE JOB ENTRY USERS. THE COMMUNICATIONS, NODES, AND COC 6600 •CENTROIDS' ARE DISCUSSED IN DETAIL.

NARZOLI, SERGIO, PERFORMANCES OF THE IRICON 2 SYSTEM OFFEREO BY ITALCABLE, (ITALCABLE S.P.A., ROME, (ITALY)), THE SECONO INTERNATIONAL CONFERENCE ON COMPUTER COMMUNICATION. CONFUTER COMMUNICATION TODAY AND UP TO I985, (STOCKHOLM, (SWEDEN), AUGUST 12-14, 1974), INTERNATIONAL COUNCIL OF ICCC, 1974, P 579-588, 3 MEFS

THE AUTHOR DISCUSSES ITALY'S INTERNATIONAL INFORMATION EXCMANGE NETWORK, IRICON 2, THE HAROWARE AND CAPABILITIES ARE GIVEN, THE AUTHOR IS IN FAVOR OF THE DEVELOPMENT OF A WORLO-WIDE PUBLIC DATA NETWORK AND FEELS THAT ITALY WILL BE A MAJOR CONTRIBUTOR TO SUCH DEVELOPMENT,

MCKAY, ODUGLAS 8, DONALD P. KARP, IBM COMPUTER NETWORK/440, (INTERNATIONAL BUSINESS MACHINES CORP., YORKTOWN HEIGHTS, .RAY, UDUGLAS BY, UDUALD P. KARP, IBM CUMPULEN NEIWERZY440, (INTERNATIONAL BOSINESS MACHINES CUMP), TURKTURN METGHIS, Ny, Thomas J. WATSCH RESEARCH CENTER). RUSTIN, RANDALL, COUPANT COMPUTER SCIENCE SYMPOSIUM 3, COMPUTER NETWORKS, (NOVEMBER 30-DECEMBER 1, 1970), PRENTICE-HALL INC., ENGLEWOOD CLIFFS, NJ, 1972, PRENTICE-HALL SEPIES IN AUTOMATIC COMPUTATION, (LC 79-30373), P 27-43, I REFS

NETWORK/440, AN IBM RESEARCH PROJECT, IS DESCRIBED. THIS NETWORK IS CLASSIFIED AS HETEROGENOUS BECAUSE AT EACH OF THE NODES A DIFFERENT MODEL OF THE IBM 360 IS USED, AN INTERESTING AND SEEMINGLY POWERFUL CONTROL LANGUAGE (ACL) FOR PROGRAMMING ANY COMPUTER ON THE NETWORK IS DESCRIBED. NETWORK CONTROL IS CONTRALIZED, ACHIEVING SOME IMPLEMENTATION AND MAINTENANCE SIMPLICITIES. THE COMMUNICATION METHOD IS STORE-AND-FORWARD, MESSAGE-SWITCHED WITH ALL MESSAGES DESTING FOR PROCESSES RENOTE FROM THE ORIGINATION COMPUTER PASSING THROUGH THE CONTROLLER.

MCKAY, DOUGLAS 8., DONALD P. KARP, NETWORK/440--IBM RESEARCH COMPUTER SCIENCES DEPARTMENT COMPUTER NETWORK, International business machines corp., yorktown Heights, ny, Thomas J. Watson Research Center, 2 Jul 71, IBM-Tjwrc RC-3431, 15P

THIS PAPER DESCRIBES THE DESIGN, IMPLEMENTATION, AND PROBLEMS ENCOUNTERED IN 19M'S NETWORK RESEARCH PROJECT, NETWORK/440. NETWORK/440 IS A NETWORK WITH CENTRALIZED CONTROL AND DISTRIBUTED COMPUTING POWER SWHICH PROVIDES USER, VIA A NETWORK/CONTROL LANGUAGE, WITH THE ABILITY TO CONTROL GEOGRAPHICALLY SEPARATED PROCESSES. PROBLEMS WHICH REMAIN TO BE SOLVED ARE CONCERNED WITH EFFICIENT UTILIZATION DF THE COMMUNICATIONS FACILITY BY FRONT END PROCESSING AND FULL-OUDEKS OPERATION, AS WELL AS NORE CONVENIENT REMOTE DATA ACCESS WITH MINAWN USER EFFDIT,

MENDICIND, SAMUEL F., OCTOPUS: THE LAWRENCE RADIATION LABORATORY NETWORK, (CALIFORNIA, UNIV, DF, LIVERMORE, LAWRENCE RADIATION LAS.).

RUSTIN, RUDALL, COURANT COMPUTER SCIENCE SYMPOSIUM 3, COMPUTER NETWORKS, (NDVEMBER 30-DECEMBER 1, 1970), PRENTICE-HALL INC., ENGLEWDOD CLIFFS, NJ, 1972, PRENTICE-HALL SERIES IN AUTOMATIC COMPUTATION, (LC 79-39373), P 95-II0

THIS PAPER DESCRIBES THE OCTOPUS NETWORK AT THE LAWRENCE RADIATION LABDRATDRY (LRL) WHICH INCLUDES THE LARGE COC THIS PAPER DESCRIBES THE DETDRUGS NEIMORK AT THE LAWRENCE RADIATION LABDRAIDMY LEREL WHICH INCLUDES THE LANGE CU MACHINES (2-COC 6600'S) 2-COC 7600'S) LOCATED AT LER. THE NETWORK IS DISTRIBUTED AND HAS THREE FUNCTIONAL ENTITIES: A REMOTE TERMINAL SYSTEM, A SHARED DATA STORAGE SYSTEM, AND A REMOTE JOB ENTRY SYSTEM. THE TERMINAL SYSTEM CONSISTS OF POP-B CONCENTRATORS EACH CAPABLE OF HANDLING ISB TERMINALS. THERE ARE PRESENTLY JSO TELETYPES DN THE SYSTEM. THE DATA STORAGE SYSTEM INCORPORATES A POP-6 CONTROLLER WITH DISK AND AN IBM PHOTOSTORE. THE PROPOSED REMOTE JOB ENTRY SYSTEM WILL HAVE UP TO IB STATIONS CONSISTING F A 600 LPM PRINTER AND 300 CPM READER CONTROLLED BY A POP-8,

MENDICINO, SAMUEL F., THE LAWRENCE RADIATION LABORATORY OCTOPUS, CALIFORNIA, UNIV, DF, LIVERMORE, LAWRENCE RADIATION LAB., APR 71, CU-LRL 73149, 17P

A NETWORK CONTAINING FOUR LARGE CDC COMPUTERS, ALL IN CLOSE PROXIMITY AND UNDER SINGLE ADMINISTRATIVE CONTROL, IS DESCRIBED. THE FIRST ITERATION OF THE NETWORK CONTAINED A SINGLE COMMUNICATIONS CONTROLLER TO SERVE ALL TERMINALS AND INTERFACE TO THE FOUR COMPUTERS. DUE TO RELIABILITY CONSIDERATIONS, THE TERMINAL CONTROL FUNCTION IS REVISED TO BE DISTRIBUTED AMONG A NUMBER OF SMALL PROCESSORS. THE RESULT IS A SYSTEM OF 350 TERMINALS WITH REDUNDANT PATHS OF

BIB TOGRAPHY

3.1.0 GENERAL DESCRIPTION

CONNECTION TO THE FOUR COMPUTERS, A PROPOSED ADDITION FOR REMOTE BATCH ENTRY IS ALSO DESCRIBED.

MERIT PROFOSAL SUMMARY, MERIT COMPUTER NETWORK, ANN ARBOR, MI, FEB 70, 9P

SOME OF THE POTENTIAL BENEFITS FROM NETWORKS ARE CUTLINED AS A PRELUCE TO A PROPOSAL FOR INTERCONNECTING THREE UNIVERSITIES IN THE STATE OF MICHIGAN. THE GENERAL APPROACH IS TO USE OFF-THE-SHELF TECHNOLOGY IN AN EFFORT TO MINIMIZE THE DEVELOPMENT EFFORT AND TO FOLUS ON THE MANAGEMENT AND UTILIZATION PROBLEMS INSTEAD. THE NETWORK HAS BEEN IMPLEMENTED AND IS DESCRIBED IN SUBSEQUENT PAPERS. (ALSO UNDER 1.1)

NOWAKOSKI, CONALC B., STATE INTEGRATED INFORMATION NET (SIINET), A CONCEPT, (WESTERN UNION TELEGRAPH CO., ARLINGTON, VAL, JACKSON, PETER E., PROCEEDINGS, ACM/IEEE SECOND SYMFOSIUM ON PROBLEMS IN THE OPTIMIZATION OF DATA COMMUNICATION SYSTEMS, (PALD ALTU, CA, OCTOBER 20-22, 1971), 1971, IEEE CAT-71CS9-C, P 137-I47

NETWORK IS DESCRIBED TO MEET THE REQUIREMENTS FOR TIMELY INFORMATION ABOUT THE INTERNAL OPERATIONS OF E GOVERNMENTS, A GENERAL DISCUSSION OF THE STATE INTEGRATED INFORMATION NET (SILMET) IS FOLLOWED BY DESCRIPTIONS HE THREE POTENTIAL MAJOR COMPONENTS OF SILMET: THE STATE RECORD INFORMATION SYSTEM, THE ECOLOGICAL MONITOR AND ROL SYSTEM, AND THE STATE CRIME INFORMATION SYSTEM. STATE OF THE T CONTROL (ALSO UNDER 4.2.0)

ORTHNER, F. HELMUTH, DAVID M. MCKEDWN, JR., A PACKET SWITCHING NETWORK FOR MINICOMPUTERS, (GEORGE WASHINGTON UNIV., WASHINGTON, DC, DEPT. OF CLINICAL ENGINEERING), COMPON FALL *75. ELEVENTH LEEC COMPUTER SOCIETY CONFERENCE, HOW TO MAKE COMPUTERS EASIER TO USE, DIGEST PAPERS, (WASHINGTON, DC, SEPTEMBER 9-11, 1975), INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YORK, 1975, IEEE 75CH09ED-6C, P 217-220, 9 REFS

A NETWORK OF MINICOMPUTERS OF DIFFERENT SIZE ARCHITECTURE OR MANUFACTURER IS OUTLINED, BOTH THE HAROWARE ARCHITECTURE AND SOFTWARE ADDITIONS TO THE HOST PEAL-TIME OPERATING SYSTEM ARE DISCUSSED. IT MIGHT BE NOTED THAT IN THIS NETWORK, THE IMPS ARE CONSTRUCTED FROM MICROPROCESSORS.

FEARSCN, CAVID J., DONALD WILKIN, SOME DESIGN A SPECTS OF A PUBLIC PACKET SWITCHED NETWORK, (FERRANTI LTO., MANCHESTER, (ENGLAND)), THE SECOND INTERNATIONAL CONFERENCE ON COMPUTER COMMUNICATION, COMPUTER COMMUNICATION TODAY AND UP TO 1985, (STOCKHOLM,

(SWEDEN), AUGUST 12-14, 1974), INTERNATIONAL COUNCIL OF ICCC, 1974, P 199-213

THIS ARTICLE DISCUSSES THE FERRANTI IMPLEMENTATION OF THE BRITISH POST OFFICE SPECIFICATION OF THE EXPERIMENTAL PACKET SWITCHED SERVICE (EPSS). A BRIEF BACKGROUND OF THE REASONS FOR THE EXPERIMENT IS GIVEN FOLLOWED BY A DISCUSSION OF THE MAIN AREAS OF THE SPECIFICATION THAT SIGNIFICANTLY INFLUENCED THE ULTIMATE SYSTEM DESIGN. DISCARDED SOLUTIONS ARE BRIEFLY MENTIONED AND SOME OF THE MAIN ASPECTS OF THE CHOSEN SOLUTION ARE DISCUSSED.

PINTER, LASZILD, DEVELOPMENT OF A HUNGARIAN COMPUTER DATA CENTER NETWORK, (COMPANY FOR COMPUTING SERVICES AND NIERK, LASSILD, DEVELOPMENT OF A NUMBARIAR CUMPTER DELA CENTER RETURNE, (COMMUNICATION SERVICES AND MANGEMENT OGGANIZATION, BUDAPEST, (HUNGARIAR CUMPTER COMMUNICATION, COMPUTER COMMUNICATION TODAY AND UP TO 1985, (STOCKHOLM, (SWEDEN), AUGUST 12-14, 1974), INTERNATIONAL COUNCIL OF ICCC, 1974, P 113-117

THIS ARTICLE PROVIDES A GENERAL DESCRIPTION OF THE COUNTRY-WIDE COMPUTER NETWORK IN HUNGARY. THE MOTIVATION FOR AND LESIGN OF THIS NETWORK ARE DESCRIBED. THIS NETWORK CONSISTED OF B REGIONAL BRANCHES IN THE SUMMER OF 1974, AND IT IS MOPED THAT WITHIN A FEW YEARS EACH COUNTY OF HUNGARY (19 IN NUMBER) WILL HAVE A REGIONAL BRANCH.

FOUZIN, LOUIS, CIGALE, THE PACKET SWITCHING MACHINE ON THE CYCLADES COMPUTER NETWORK, (INSTITUT DE RECHERCHE O'INFORMATIQUE ET O'AUTOMATIQUE, ROCOUENCOURT, (FRANCE)), POSENFELD, JACK LA. INFORMATION PROCESSING 74. PROCEEDINGS OF IFIP CONGRESS 74. I. COMPUTER HAROWARE AND ARCHITECTURE, (STOCKHGLM, (SWEDEN), AUGUST S-10, 1974), AMERICAN ELSEVIER PUBLISHING CO. INC., NEW YORK, 1974, P 15S-159, 28 REFS

THIS PAPER PRESENTS A BRIEF SUMMARY OF CIGALE THE COMMUNICATIONS NETWORK WITHIN FRANCE'S GENERAL PURPOSE COMPUTER NETWORK CYCLADES. EXTENSIVE REFERENCES ARE INCLUDED.

FOUZIN, LOUIS, PRESENTATION AND MAJOR OESIGN ASPECTS OF THE CYCLADES COMPUTER NETWORK, (INSTITUT DE RECHERCHE O'INFORMATIQUE ET O'AUTOMATIQUE, ROCOUENCOURT, (FRANCE)), CATA NETWORKS: ANALYSIS AND OESIGN, THIRO DATA COMMUNICATIONS SYMPOSIUM, (ST. PETERSBURG, FL. NOVEMBER 13-15, 1973), INSTITUTE OF ELECTRICAL AND ELECTRÔNICS ENGINEERS INC., NEW YORK, 1973, IEEE CN-73-CHOB2B-4C, P 80-87, 13 REFS

THIS PAPER DESCRIBES THE GENERAL DESIGN AND PHILOSOPHY OF A COMPUTER NETWORK UNDER DEVELOPMENT IN FRANCE. THE NETWORK WILL LINK ABOUT 20 HETEROGENEOUS COMPUTERS LOCATEO IN UNIVERSITIES, RESEARCH AND OATA PROCESSING CENTERS. GOALS ARE TO SET UP A PROTOTYPE NETWORK IN ORDER TO FOSTER EXPERIMENTS IN VARIOUS AREAS, SUCH AS: DATA CCMMUNICATIONS: COMPUTER INTERACTION: COOPERATIVE RESEARCH: DISTRIBUTED DATA BASES. THE NETWORK IS INTENDED TO BE BOIT AN OBJECT OF RESEARCH AND AN OPERATIONAL TOOL. WHILE IN MANY WAYS SIMULAR TO THE APPANET. IT PRESENTS SCHE DISTINCTIVE DIFFERENCES IN ADDRESS AND MESSAGE MANDLING INTENDED TO FACILITATE INTERCONNECTION WITH OTHER

- PRESTIA, CLARK A., SINGER POINT-OF-SALE SYSTEMS, (SINGER BUSINESS MACHINES, SAN LEANDRO, CA), COMPCON 73 SEVENTH ANNUAL IEEE COMPUTER SOCIETY INTERNATIONAL COMFERENCE, DIGEST OF PAPERS, *COMPUTING NETWORKS FROM MINIS THROUGH MAXIS --- ARE THEY FOR REAL?*, (SAN FRANCISCO, CA, FEBRUARY 27-28, MARCH I. 1973), INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS INC., NEW YORK, 1973, (LC 68-1628), P 189-190 (ANNOTATION UNDER 4.1.9)
- RICHAROSON, O. J., THE A.A.E.C. COMPUTER NETWORK DESIGN, (AUSTRALIAN ATOMIC ENERGY COMMISSION, LUCAS HEIGHTS, RESEARCH ESTABLISHMENT),

AUSTRALIAN COMPUTER JCURNAL, VOL 3, ISSUE 2, MAY 71, P SS-59, 4 REFS

AUSTRALIAN PLANS FOR A LOCAL GATA COMMUNICATION NETWORK ARE DESCRIBED. THE NETWORK IS BASED ON A PARALLEL BUS SCHEME AUSIALIAN PLANS FUX A LUCA DAIA CUMMUNICATION NETWORK ARE DESCHIEGE. THE RETWORK IS BASED ON A PARALLE DUS SCHEED UTILIZING STNCHRONOUS TRANSMISSION WITH A CENTRALIZED CONTROLLER. THIS BUS, REFERED TO AS A 'OATA WAY. IS PLANNED TO OPERATE AT A HIGH ENDUGH DATA RATE TO PERMIT SO,000 BITS/SECOND TO BE TRANSFERRED FROM PORT TO PORT ON THE NETWORK, NETWORK TERMINALS INCLUDE AN IBM 360 AND OTHER SWALLER COMPUTERS, AS WELL AS TERMINAL CONTROL COMPUTERS. A LIMITEO RATIONALE FOR THE NETWORK IS GIVEN AND A MECHANISM FOR RESOLVING PRIDEITIES ON THE BUS IS PRESENTED.

ROBERTS . LAWRENCE G ... BARRY D. WESSLER, COMPUTER NETWORK DEVELOPMENT TO ACHIEVE RESOURCE SHARING, (ADVANCED RESEARCH BERTS, LAWRENCE G., DARKT U. WESSLER' COMPUTER HEIMORE DEVELOPMENT TO AUTOUT RESOURCE STARTING. (AUTOUCO RECENT PROJECTS AGENCY, WASHINGTON, OC), AFIPS PROCEEDINGS, 1970 SPRING JOINT COMPUTER CONFERENCE, VOLUME 36, (ATLANTIC CITY, NJ, NAY S-7, 1970), AFIPS PRESS, MONTVALE, NJ, 1970, AFIPS CONFERENCE PROCEEDINGS, (LC SS-44701), P S43-S49, 7 REFS

AN EXCELLENT OVERVIEW OF THE ARPA NETWORK IS PROVIDED IN THIS KEY PAPER. THE DESIGN PHILOSOPHY IS JUSTIFIED IN TERMS OF COST, CAPACITY, RESPONSIVENESS, AND RELIABILITY. THE READER GETS A GOOD GENERAL PICTURE OF THE APPANET AND AN INICATION OF THE DESIGN OBJECTIVES.

BERTS. LAWRENCE G., NATIONAL NETWORKS.(PRESENTEO AT, N MEETING SEMINAR, ATLANTA, GA, OCTOBER 15, 1970, (AOVA) BEHAVICRAL SCIENCE. VOL 16, ISSUE S, SEP 71, P S00-508 , NATIONAL NETWORKS.(PRESENTED AT, NETWORKS IN HIGHER EOUCATION: PROCEEDINGS OF THE EOUCOM COUNCIL (LANTA, GA, OCTOBER 15, 1970, (AOVANCED RESEARCH PROJECTS AGENCY, ARLINGTON, VA).

THE AUTHOR DISCUSSES COMPUTER-TO-COMPUTER NETWORKS, SPECIFICALLY, COMPUTER-TO-COMPUTER INTERACTION. SOME OF THE Issues addressed are: functions of the interface message processor (imp); topology of the arpanet (present and expanded); Comparative costs in transmitting information; a new concept for program sharing through networking.

ROSEN, SAUL, JOHN M. STEELE, A LOCAL COMPUTER NÉTWORK, (PURQUE UNIV,, LAFAYETTE, IN, COMPUTING CENTER), COMPCON 73 - SEVENTH ANNUAL IEEE COMPUTER SOCIETY INTERNATIONAL COMFERENCE. DIGEST OF PAPERS, *COMPUTING NETWORKS FROM MINIS THRCUGH MAXIS -- ARE THEY FOR REAL?*, (SAN FRANCISCO, CA, FEBRUARY 27-28, MARCH I, 1973), INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS INC., NEW YORK, 1973, (LC 60-1028), P 129-132, 2 REFS

THE PURQUE COMPUTER NETWORK WAS STARTED ON A MODEST SCALE IN 1968, AND HAS SINCE EVOLVED INTO A SYSTEM CONSISTING OF MORE THAN 40 COMPUTERS AND IN EXCESS OF 100 KEYBOARD TERMINALS, ALL OF WHICH MAY BE IN SIMULTANEOUS OPERATION. HARCWARE AND SOFTWARE CESIGN EFFORTS THAT WERE NECESSARY IN THE DEVELOPMENT OF THE NETWORK ARE DESCRIBED.

SSELL, J. J., O. C. KNIGHT, COMMUNICATION AND SYSTEMS DEVELOPMENT IN THE C.S.I.R.O. NETWORK, (COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANIZATION, MELBOURNE, (AUSTRALIA), COMPUTING RESEARCH SECTION, COMMONWEALTH RUSSELL.

3.1.0 GENERAL DESCRIPTION

SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANIZATION, ADELAIDE, (AUSTRALIA), COMPUTING RESEARCH SECTION), PROCEEDINGS OF THE THIRD AUSTRALIAN COMPUTER CONFERENCE, (CANBERRA, (AUSTRALIA), MAY 16-20, 1966), AUSTRALIAN TRADE PUBLICATIONS, 1966, 9 384-388, CSIRO REFS

A DISCUSSION OF THE CSIRD COMPUTER NETWORK OF AUSTRALIA IS PRESENTED HERE. THE NETWORK CONSISTS OF A LARGE CENTRAL Computer connected to three satellite computers. Besides the Technical description, the history of the decision to develop The Net, The Staff responsibilities, and compatibility problems are described.

RUTLEOGE. RONALD M., ALBIN L. VAREHA, LEE C. VARIAN, ALLAN H. WEIS, SALOMON F. SERDUSSI, JAMES W. MEYER, JOAN F. JAFFE, MARY ANNE K. ANGELL, AN INTERACTIVE NETWORK OF TIME-SHARING COMPUTERS, (CARNEGIE-MELLON UNIV., PITTSBURCH, PA, PRINCETON UNIV., NJ. INTERNATIONAL BUSINESS MACHINES CORP., YORKTOWN HEIGHTS, NY, THOMAS J. WATSON RESEARCH CENTER), PROCEEDINGS OF 24TH NATIONAL CONFERENCE, ASSOCIATION FOR COMPUTING MACHINERY, (AUGUST 26-28, 1969), ASSOCIATION FOR CCMPUTING MACHINERY, NEW YORK, 1969, ACM P-69, P 431-441, 13 REFS

THE TSS NETWORK, A NETWORK OF IBM 360/67'S LOCATED AT CARNEGIE-MELLON AND PRINCETON UNIVERSITIES AND AT IBM IS DESCRIBED. THE COMPUTERS ARE CONNECTED THROUGH IBM 2702 SYNCHRONOUS INTERFACES OVER LEASED OR DIAL-UP LINES AT 2000 BAUD CR HIGHER DATA RATES. TRANSMISSION IS HALF UNPLEX AND NO LINE MULTIPLEXING IS PERFORMED. A NETWORK COMMAND LANGUAGE ALLOWS A USER AT DNE SITE TO RUN PROCESSES AT OTHER SITES ASYNCHRONOUSLY. RECEIVING NOTFICATION OF TASK CAMPLETICM. THE STATED GOALS OF THE NETWORK ARE PROGRAM SHARING, DATA SHARING, SPECIAL FACILITIES ACCESS, AND LOAD SHARING. (ALSO UNDER 1.1)

SHARMA, R. L., J. C. SHAH, M. T. EL-BARDAI, K. K. SHARMA, C-SYSTEM: MULTIPROCESSOR NETWORK ARCHITECTURE, (COLLINS RADIO CO., OALLAS, TX, COMMUNICATION SWITCHING SYSTEMS DIV.), ROSENFELD, JACK L., INFORMATION PROCESSING 74. PROCEEDINGS OF IFIP CONGRESS 74. I, COMPUTER HAROWARE AND ARCHITECTURE, (STOCKHCLM, (SWEDEN), AUGUST S-IO, 1974), AMERICAN ELSEVIER PUBLISHING CO. INC., NEW YORK, 1974, P 19-23

THIS IS A BRIEF DESCRIPTION OF THE COLLINS RADIO COMPANY C-SYSTEM. A COAXIAL LOOP AND A LOOP SYNCHRONIZER MAINTAIN A BASE RATE OF 32 MBPS PROVIDING 16 - 2 MBPS CHANNELS. PROCESSORS ATTACHED TO THE LOOP SUPPORT A VARIETY OF PREIPHERALS. THE SYSTEM FINDS USE IN AIRLINE COMMUNICATION SYSTEMS. BANKING SYSTEMS AND OTHERS.

- TEAGER, MERBERT M., THE EXOTIC MEDICAL USER AND THE ONGOING COMPUTER REVOLUTION, (BOSTON UNIV., MA, MEDICAL CENTER), GREENBERGER, MARTIN, JULIUS ARONOFSKY, JAMES L, MCKENNEY, WILLIAM F. MASSY, NETWORKS FOR RESEARCH AND EDUCATION: SHARING COMPUTER AND INFORMATION RESOURCES NATIONWIDE, MIT PRESS, CAMBRIDGE, MA, 1973, P 131-142 (ANNOTATION UNDER 4.2.1)
- THE MERIT COMPUTER NETWORK. PROGRESS REPORT FOR THE PERIOD JULY 1969-MARCH 1971, MERIT COMPUTER NETWORK, ANN ARBOR, MI, MAY 71, JUL 69-MAR 71, MCN 0571-PR-4, (PB-200 674), 61P

THE OBJECTIVES AND GENERAL INFLEMENTATION PLANS FOR THE MERIT NETWORK ARE INTRODUCED, PLANS CALL FOR A MINICOMPUTER BASED THREE NODE NETWORK IN WHICH THE INTERCONNECTED THREE 'HOST' COMPUTERS ARE NETWORKED WITH NO HARDWARE OR SOFTWARE MODIFICATIONS TO THE HOST SYSTEMS. ACCESS BY USERS OF EACH SYSTEM IS PROVIDED TO THE RESOURCES OF THE OTHER TWO SYSTEMS. THE EFFORT IS CORDINATED BY A BOARD OF DIRECTORS REPRESENTING THE THREE PARTICIPATING UNIVERSITIES.

THES, ARTHUR W., IGOR T. HAWRYSZKIEWYCZ, DAVID J. GANNON, DESIGN OF THE AUSTRALIAN POST OFFICE COMPUTER NETWORK, (AUSTRALIAN POST OFFICE, MELBOURNE, (AUSTRALIA)), THE SECOND INTERNATIONAL CONFERENCE ON COMPUTER COMMUNICATION, COMPUTER COMMUNICATION TODAY AND UP TO 1985, (STOCKHOLM, (SWEDEN), AUGUST 12-14, 1974), INTERNATIONAL COUNCIL OF ICCC, 1974, P 99-105

THE AUTHORS DESCRIBE THE DESIGN OF THE NETWORK TO MEET AUSTRALIA'S PUBLIC POSTAL AND TELECOMMUNICATIONS NEEDS. DUE TO THE GEOGRAPHICAL DISTRIBUTION OF POPULATION CENTERS, A SYSTEM INCOMPORATING LIMITED DECENTRALIZATION OF MAIN PROCESSING PCWER AND MEAVY RELIANCE ON LINE COMMUNICATIONS WAS CHOSEN, ISSUES OF CENTRALIZATION VS, DECENTRALIZATION, NETWORK CONFIGURATIONS, RELIANCE UN STANDARDS IN RELATICN TO THIS SPECIFIC IMPLEMENTATION ARE ALL BRIEFLY DISCUSSED;

TYMES, LA ROY, TYMNET--A TERMINAL ORIENTED COMMUNICATION NETWORK, (TYMSHARE INC., CUPERTINO, CA), AFIPS CONFERENCE PROCEEDINGS, VOLUME 38, 1971, SPRING JOINT COMPUTER COMFERENCE, (ATLANTIC CITY, NJ, MAY IB-20, 1971), AFIPS PRESS, MONTVALE, NJ, 1971, AFIPS COMFERENCE PROCEEDINGS, (LC SS-44701), P 211-216, S REFS

THE TYMMET COMMERCIAL COMPUTER NETWORK IS INTRODUCED. THE NETWORK IS SPECIFICALLY DESIGNED FOR TERMINAL TO COMPUTER COMMUNICATIONS, IT INCORPORATES SPEED RECOGNITION, FULL-DUPLEX SUPPORT, HALF-DUPLEX SUPPORT AND SOME SPECIAL DEVICE FEATURES INCLUDING A "CHARACTER GOEBLER" TO FLUSH THE PIPE-LINE OF OUTPUT ON A USER GENERATED BREAK. THE SAME MACHINE (VARIAN 620 MINICOMPUTER) IS USED AS A FRONT END TO THE HOSTS (XOS 940°5) IN THIS DISTRIBUTED NETWORK AND AS A REMOTE TERMINAL CONCENTRATOR TO ACCOMMODATE OLIA-UP USERS. THE NETWORK CONTROLLER RESIDES IN ONE OF THE HOSTS BUT IS AUTOMATICALLY TRANSFERRABLE TO AN ALTERNATE HOST IN THE EVENT OF FAILURE. THIS NETWORK IS NOT DESIGNED TO ACCOMMODATE ALL FCRMS OF COMPUTER INPUT--NO BATCH OR GRAPHICS SUPPORT FOR EXAMPLE--BUT IS GEARED TOWARD THE INTERACTIVE TERMINAL USER.

WALKER, PHILIP M., STUART L. MATHISON, SPECIALIZED COMMON CARRIERS, (GEORGETOWN, UNIV, DF, WASHINGTON, DC, LAW CENTER, LITTLE (ARTHUR D.) INC., CAMBRIDGE, MA), TELEPHONE ENGINEER AND MANAGEMENT, IS OCT 71, P 41-60, B REFS (ANNCTATICN UNDER 1.6)

WEIS, ALLAN H., DISTRIBUTED NETWORK ACTIVITY AT IBM. (INTERNATIONAL BUSINESS MACHINES CORP., YORKTOWN HEIGHTS, NY, DEPT, OF COMPUTING SYSTEMS), Rustin, Randall, courant computer science symposium 3. computer networks, (november 30-december 1, 1970), prentice-hall Inc., Engle Wood Cliffs, NJ, 1972, prentice-hall series in automatic computation, (LC 79-39373), p 1-28, 4 refs

IN THIS PAPER WEIS DESCRIBES THE TSS NETWORK OF IBM COMPUTERS AND DISCUSSES SOME PROBLEMS OF NETWORKING IN GENERAL. OF INTEREST, BUT LACKING IN DETAIL, IS THE MENTION OF TOCAM (TABLE DRIVEN COMPUTER ACCESS METHOD) WHICH PERMITS SIMULTANEOUS COMMUNICATION WITH DIFFERENT SYSTEMS AND MACHINES. THE NETWORKING PROBLEMS WHICH RECEIVE TREATMENT ARE ARCHITECTURE, RESOURCE CONTROL. DATA INTERCHANGE, TELECOMMUNICATIONS, AND TECHNICAL MANAGEMENT.

WILLIAMS, LELAND H., A FUNCTIONING COMPUTER NETWORK FOR HIGHER EDUCATION IN NORTH CAROLINA. (TRIANGLE UNIVERSITIES COMPUTATION CENTER, RESEARCH TRIANGLE PARK, NC). GREENBERGER, MARTIN, JULIUS ARONOFSKY, JAMES L. MCKENNEY, WILLIAM F. MASSY, NETWORKS FOR RESEARCH AND EDUCATION: SHARING COMPUTER AND INFORMATION RESOURCES NATIONWIDE, MIT PRESS, CAMBRIDGE, MA, 1973, P 222-232, 6 REFS

THE AUTHOR DESCRIBES THE COMPUTER NETWORK AT THE TRIANGLE UNIVERSITIES COMPUTATION CENTER (TUCC) AND ALSO DISCUSSES ITS ACHIEVEMENTS AND PLANS FOR THE FUTURE.

- WOOD, DAVID C., A SURVEY OF THE CAPABILITIES OF B PACKET SWITCHING NETWORKS. (MITRE CORP., MCLEAN, VA), PROCEEDINGS OF THE 1975 SYMPOSIUM-COMPUTER NETWORKS: TRENDS AND APPLICATIONS. (GAITHERSBURG, MD, JUNE 18, 1975), INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YORK, 1975, 7SCH0973-8C, P I-7, 22 REFS (ANNOTATION UNDER 1.2)
- ZAKS, RODNAY, A PROCESSOR NETWORK FOR URBAN TRAFFIC CONTROL, (COPPE-FEDERAL UNIV., RIO DE JANEIRO, (BRAZIL), SINGER CO., SUNNYVALE, CA. TRAFFIC INFORMATION SYSTEMS), COMPCON 73 - SEVENTH ANNUAL IEEE COMPUTER SOCIETY INTERNATIONAL CONFERENCE, DIGEST OF PAPERS, *COMPUTING NETWORKS FROM MINIS THROUGH MAXIS -- ARE THEY FOR REAL?*, (SAN FRANCISCO, CA, FEBRUARY 27-28, MARCH I, 1973), INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS INC., NEW YORK, 1973, (LC 68-1628), P 215-218, 2 REFS

A COMPUTERIZED URBAN TRAFFIC CONTROL SYSTEM UTILIZING WICROPROCESSOR-BASED LOCAL TRAFFIC PROCESSORS WITH A CENTRAL PROCESSOR MONITORING AND COORDINATING THE ACTIVITY OF LOCAL TRAFFIC PROCESSORS IS DESCRIBED IN THIS ARTICLE. THE DESCRIPTION INCLUDES THE DRGANIZATION OF THE NETWORK, CONTROL CENTER OF THE NETWORK, THE LOCAL TRAFFIC PROCESSORS, AND THE DESIGN OF THE COMMUNICATIONS NETWORK.

- 3. I.1 TECHNICAL DESCRIPTIONS
 - ABRAMSON, NORMAN, FINAL TECHNICAL REPORT FOR CONTRACT NUMBER NAS2-6700, HAWAII, UNIV, OF, HONOLULU, ALDHA SYSTEM, JAN 75, HU TR-875-1, 49P

RESEARCH IN THE ALOHA SYSTEM UNDER THIS CONTRACT WAS DIVIDED INTO TWO MAJOR TASKS: (1) TO STUDY AND DEVELOP ADVANCED FORMS OF COMPUTER-COMMUNICATIONS NETWORKS USING RANDOM-ACCESS PACKET S#ITCHING METHODS, AND 12) TO CONDUCT GENERAL STUDIES 3.I.I TECHNICAL DESCRIPTIONS

OF MULTIPROCESSOR SYSTEM ORGANIZATION CENTEREO ON THE DEVELOPMENT OF THE BCC SOO COMPUTER, DESIGNED AT BERKELEY COMPUTER CORPORATION. THE RESULTS OF THIS RESEARCH ARE EXPLAINED IN DETAIL IN THIS REPORT. ALSO INCLUDED IS A LIST OF OTHER DOCUMENTS PUBLISHED IN SUPPORT OF EACH TASK. (ALSO UNDER 3.2.2.3)

ABRAMSON, NORMAN, THE ALOHA SYSTEM, HAWAII, UNIV. OF, HONOLULU, JAN 72, UH TR-B72-1, NASA NAS2-6700, AF F44620-69-C-0030, 30P, I6 REFS (ANNOTATION UNDER 3.2.1)

AISO, HIDEO, ASAO ISHIZUKA, NORIYUKI KAMIGAYASHI, HIDEYUKI TOKUDA, AKIRA TAKEYAMA, YOUICHI SHIMIZU, YUTAKA MATSUSHITA, HIDEKI NISHIGAKI, RYOJI HIRATSUKA, A MINICOMPUTER COMPLEX--KOCOS (KEIO-OKI'S COMPLEX SYSTEM), (KEIO UNIV., YOKOHAMA, (JAPAN), OKI ELECTRIC INOUSTRY CO. LTO., TOKYO, (JAPAN)), FOURTH DATA COMMUNICATIONS SYMPOSIUM, NETWORK STRUCTURES IN AN EVOLVING OPERATIONAL ENVIRONMENT, (QUEBEC CITY, (CANADA), OCTOBER 7-9, 1975), INSTITUTE OF ELECTRICAL ANO ELECTRONICS ENGINEERS INC., NEW YORK, 1975, IEEE 7S-CH10001-7-DATA, P S-7--S-512, 14 REFS

THIS IS A STUDY OF THE KOCOS MINICOMPUTER COMPLEX WHICH WAS CREATED TO FACILITATE RESOURCE AND LOAD SHARING IN A HETEROGENEOUS MINICOMPUTER COMPLEX, ANDTHER DESIGN GOAL WAS TO REALIZE PARALEL PROCESSING THROUGH ORGANIC INTEGRATION OF RESOURCES. THE SYSTEM CONFIGURATION AND INTERPROCESS COMMUNICATIONS FACILITY ARE DESCRIBED.

ANDERSON, O. R., THE EPIC-OPS--A OISTRIBUTEO NETWORK EXPERIMENT, (SPERRY RAND CORP., ST. PAUL, MN. SPERRY UNIVAC OEFENSE SYSTEMS OIV.), EASCON '75 RECORD. LEEE ELECTRONICS AND AEROSPACE SYSTEMS CONFERENCE, (WASHINGTON, OC, SEPTEMBER 29-OCTOBER I, 1975), INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YORK, 1975, IEEE 75-CHO-998-S-EASCON, (LC 73-2277), P 121-A-121-G

THE AUTHOR DESCRIBES THE EPIC COMPUTER, THE VIRTUAL ADDERS TRANSLATOR, THE MEMORY MULTIPLEX DATA LINK, THE FUTURE NETWORK MASS STORE, AND THE NETWORK PROCESS CONTROL. LOCALIZED 01STRIBUTED PROCESSING FOR RESOURCE-SHARING IS THE OPERATIONAL GOAL. AN EXCELLENT ARTICLE FOR THOSE INTERESTED IN LOCAL NETWORKS.

ARPANET: DESIGN, OPERATION, MANAGEMENT AND PERFORMANCE, NET⊯ORK ANALYSIS CORP., GLEN COVE, NY, APR 73, 148P, 25 REFS

THIS REPORT COULD BE APPROPRIATELY TITLED 'EVERYTHING YOU EVER WANTED TO KNOW ABOUT THE ARPANET (CIRCA 1973)', TECHNICAL IN NATURE, THIS REPORT COVERS SUCH AREAS AS: INTRODUCTORY BACKGROUND, DEVELOPMENT AND MANAGEMENT OF THE NETWORK, TRAFFIC MANAGEMENT AND PROBLEWS, ROUTING, PROTOCALS, SECURITY, RELIABLITY, MEASUREMENT AND STATISTICS. ALTHOUGH IT REPRESENTS A COMPREHENSIVE SUMMARY OF THE ARPANET, THE REPORT WAS PUBLISHED IN 1973 AT A TIME WHEN THERE WERE FEWER HOSTS AND PREVIOUS TO THE SATELLITE LINKS TO HAWAII. ENGLAND, AND NORWAY, WHILE RECOMMENDED AS WORTHWHILE READING, BE ADVISED OF THE TIME OIFFERENTIAL.

ASHENHURST, ROBERT L., HIERARCHICAL COMPUTING, (CHICAGO, UNIY. OF, IL, INST. FOR COMPUTER RESEARCH), GREENEERGER, MAPTIN, JULIUS ARONOFSKY, JAMES L. MCKENNEY, WILLIAM F. MASSY, NETWORKS FOR RESEARCH AND EDUCATION: SHARING COMPUTER AND INFORMATICN RESOURCES NATIONWIDE, MIT PRESS, CAMBRIDGE, MA, 1973, P 74-BB, 6 REFS (ANNOTATION UNDER 3.0)

ATKINSON, D. M., U. C. STRAHLENCORF, THE PROBABLE FUTURE OF CANADIAN LONG HAUL DIGITAL DATA NETWORK CONNECTIONS WITH THE U.SAA., (BELL CANADA), JACKSEN, PETER E., PROCEEDINGS. ACM/IEEE SECOND SYMPOSIUM ON PROBLEMS IN THE OPTIMIZATION OF DATA COMMUNICATION SYSTEMS, (PALD ALTO, CA, OCTOBER 20-22, 1971), 1971, IEEE CAT-71CS9-C, P 10-15

(PALO ALTO, CA, OCTOBER 20-22, 1971), 1971, IEEE CAT-71CS9-C, P 10-1S

THE SOCID-ECONOMIC CONDITION IN CANADA WHICH WILL RESULT IN NETWORK CONFIGURATIONS DIFFERENT FROM THOSE EVOLVING IN THE U.S. IS OUTLINED. THE FUTURE OF TELECOMMUNICATIONS AND THE OBJECTIVES OF A DIGITAL NETWORK IN CANADA ARE COVERED IN SOME DETAIL.

(ALSO UNDER 3.2.0)

AUPPERLE, ERIC M., MERIT COMPUTER NETWORK: HAROWARE CONSIDERATIONS. (MICHIGAN, UNIV. OF, ANN ARBOR). RUSTIN, RANDALL, COURANT COMPUTER SCIENCE SYMPOSIUM 3. COMPUTER NETWORKS. (NOVEMBER 30-DECEMBER 1. 1970), PRENTICE-HALL Inc., ENGLEMODE CLIFFS, NJ. 1972. PRENTICE-HALL SERIES IN AUTOMATIC COMPUTATION. (LC 79-3973), P 49-63

THE HAROWARE USED IN THE COMMUNICATIONS SUBNET OF THE MERIT NETWORK IS DESCRIBED AND THE CHOSEN CONFIGURATION IS COMPARED TO ALTERNATIVES. A RATHER INTERESTING ARRANGEMENT IS MENTIONED THAT ALLOWS A SINGLE AUTOMATIC CALLING UNIT TO BE MULTIPLEXED AMONG EIGHT LINES. (ALSO UNDER 3.3,2)

BARKAUSKAS, B. J., R. R. R. REZAC, C. A. TRLICA, A COMPUTER NETWORK FOR PERIPHERAL TIME SHARING, (BELL TELEPHONE LABS, INC., NAPERVILLE, IL). COMPON 73 - SEVENTH ANNUAL IEEE COMPUTER SOCIETY INTERNATIONAL CONFERENCE. DIGEST OF PAPERS, 'COMPUTING NETWORKS FROM MINIS THROUGH MAXIS -- ARE THEY FOR REA.7''. (SAN FRANCISCO, CA, FEBRUARY 27-28, MARCH 1, 1973), INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINERES INC., NEW YORK, 1973, ILC 68-16281, P 227-229

THE ARCHITECTURE OF A SYSTEM UTILIZING A MEDIUM-SCALE COMPUTER WITH A STANDARD COMPLEMENT OF PERIPHERALS AS THE CENTRAL PERIPHERAL CONTROLLER AND DATA MANAGER TO SUPPORT A NETWORK OF MINI-COMPUTERS IS DESCRIBED. THIS SYSTEM PROVIDES AN ECONOMICAL LOCAL PROCESSING CAPABILITY EVEN WHEN EXPENSIVE PERIPHERALS ARE REDURED.

EEEPE, MAX P+, NEIL C+ SULLIVAN, TYMNET--A SERENOIPITOUS EVOLUTION, (TYMSHARE INC., CUPERTINO, CA), IEEE TRANSACTIONS ON COMMUNICATIONS, VOL COM-20, ISSUE 3, JUN 72, P 511-515, 2 REFS

THE TYMNET COMMERCIAL COMPUTER NETWORK AND SOME OF THE EARLY PROBLEMS WITH ITS USAGE AND RESULTANT CHANGES IN THE NETWORK ARE DESCRIBED. THE TRANSITION TO MINICOMPUTERS AS HOST COMPUTER INTERFACES, INTERFACTIVE TERMINAL USER INTERFACES, AND STORE-AND-FORWARD NODES IN THE NETWORK IS DISCUSSED. ALSO DESCRIBED ARE THE TYMNET CONCEPTS OF A VIRTUAL CIRCUIT AND A CENTRALIZED NETWORK CONTROLLER.

CENDIT, JOHN W., IRA W. COTTON, O. C. WOOD, PROPOSED IMPLEMENTATION PLAN FOR A WWMCCS INTERCOMPUTER NETWORK, MITRE CORP., WASHINGTON, OC, 2 DEC 71, MC WP-9807, AF F19628-71-C-0002, 41P

THIS DOCUMENT PRESENTS A DEVELOPMENT PLAN FOR A PROTOTYPE WWMCCS (WORLD WIDE MILITARY COMMAND AND CONTROL SYSTEM) COMPUTER NETWORK LINKING THREE NEW WWMCCS STANDARD SYSTEMS (HONEYWELL 6000 COMPUTERS). THE NETWORK DESIGN IS BASED ON THE TECHNOLOGY OF THE ARPA NETWORK. TASK AREAS ARE IDENTIFIED, SCHEDULES DEVELOPED, AND BUDGETARY INFORMATICN PRESENTED. (ALSO UNDER S-9)

CHRISTMAN, RONALO 0,, GEVELOPMENT OF THE LASL COMPUTER NETWORK, (LOS ALAMOS SCIENTIFIC LAB., NM), COMPCON 73 - SEVENTH ANNUAL IEEE COMPUTER SOCIETY INTERNATIONAL COMFERENCE, DIGEST OF PAPERS, 'COMPUTING NETWORKS FROM MINIS THROUGH MAXIS -- ARE THEY FOR REAL?', (SAN FRANCISCO, CA, FEBRUARY 27-28, MARCH I, 1973), INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS INC., NEW YORK, 1973, (LC 68-1628), P 239-242, 4 REFS

TECHNICAL ASPECTS OF NETWORK HAROWARE AND SOFTWARE, SYSTEM DESIGN, IMPLEMENTATION EXPERIENCE, AND PROJECTED COSTS ARE PRESENTED FOR A NETWORK (HYORA), UNDER DEVELOPMENT AT THE LOS ALAMOS SCIENTIFIC LABORATORY. MAJOR GOALS OF THE NETWORK ARE TO PROVIDE A COMMON DATA BASE FOR ALL USERS AND COMPUTERS AND TO PROVIDE REMOTE TERMINAL CAPABILITIES.

COCANOWER, ALFRED B., MERIT COMPUTER NETWORK: SOFTWARE CONSIDERATIONS. (MICHIGAN, UNIV. OF. ANN ARBOR), RUSTIN, RANOALL, COURANT COMPUTER SCIENCE SYMPOSIUM 3. COMPUTER NETWORKS, (NOVEMBER 30-OECEMBER 1, 1970), PRENTICE-HALL INC., ENGLEWOOD CLIFFS, NJ, 1972, PRENTICE-HALL SERIES IN AUTOMATIC COMPUTATION, (LC 79-39373), P 65-77, I REFS

A DESCRIPTION OF THE COMMUNICATIONS SOFTWARE FOR THE MERIT NETWORK IS PROVIDED. THE FUNCTIONAL RELATIONSHIPS OF THE MODALES IN BOTH THE MOST AND COMMUNICATIONS COMPUTERS ARE DETAILED. (ALSO UNDER 3.4.4.0)

COCANOWER, ALFRED 8,, WAYNE FISCHER, W. S. GERSTENBERGER, BRIAN S. REAO, THE COMMUNICATIONS COMPUTER OPERATING SYSTEM--THE INITIAL DESIGN, MERIT COMPUTER NETWORK, ANN ARBOR, MI, OCT 70, MCN M-1070-TN-3, (PB-203 S52), 94P

THE OPERATING SYSTEM OF THE MERIT NETWORK COMMUNICATIONS COMPUTER (CC) IS DESCRIBED IN DETAIL. THE CC IS THE INTERFACE BETWEEN A COMPUTER NODE AND THE NETWORK AND ITS PRIMARY FUNCTION IS TO MULTIPLEX CONNECTIONS BETWEEN PAIRS OF PROCESSES AT SEPARATE NODES. SEMAPHORES ARE USED TO SYNCHRONIZE TASKS AND REGULATE RECORD TRAFFIC, AND THEY ARE AUGMENTED SO THAT BLOCKED TASKS CAN BE ASYNCHRONOUSLY RESTARTED.

BIBLIOGRAPHY

OESPRES, REMI, RCP, THE EXPERIMENTAL PACKET-SWITCHED DATA TRANSMISSION SERVICE OF THE FRENCH PTT, (CENTRE COMMUN O*ETUDES OE TELEVISION ET TELECOMMUNICATIONS, RENNES CEDEX, (FRANCE), THE SECOND INTERNATIONAL CONFERENCE ON COMPUTER COMMUNICATION, COMPUTER COMMUNICATION TOOAY ANO UP TO 1985, (STOCKHOLM, (SWEDEN), AUGUST 12-14, 1974), INTERNATIONAL COUNCIL OF ICCC, 1974, P I71-185

RCP IS AN EXPERIMENTAL PACKET SWITCHED NETWORK IN FRANCE DESIGNED IN PREPARATION FOR A PUBLIC PACKET SWITCHED SERVICE. THE INITIAL CONFIGURATION OF RCP INCLUDES THREE SWITCHING COMPUTERS AND THREE TIME-DIVISION MULTIPLEXORS WITH CUSTOMER COMPUTERS ACCESS TO THE NETWORK THROUGH 480D BITYSEC TRANSMISSION LINES. BASIC SERVICE IS OFFERED BY THE SETTING UP OF FULL DUPLEK *VIRTUAL CIRCUITS*, AND THE CONTROL OF TRANSMISSION DN THESE CIRCUITS*, THE ARTICLE CONTAINS A GODD TECHNICAL DISCUSSION OF THE NETWORK INCLUDING ARCHITECTURE AND PROTOCOLS*.

FRANK HEINRICH, THE STRUCTURE DF A DISTRIBUTED COMPUTER SYSTEM-THE DISTRIBUTED FILE SYSTEM, FARBER, CAVIO J., (CALIFORNIA, UNIV. OF, IRVINE), (CALIFORNIA, UNIV. UF, INVINE). WINKLER, STALEY, COMPUTER COMMUNICATIONS: IMPACTS AND IMFLEMENTATION, THE FIRST INTERNATIONAL CONFERENCE ON COMPUTER COMMUNICATION, (WASHINGTON, DC, OCTOBER 24-26, IS72), INTERNATIONAL CONFERENCES ON COMPUTER COMMUNICATION, 1972, ICCC 72-CHO-690-680, NSE 0J-33239, P 364-370, B REFS

THE DISTRIBUTED COMPUTING SYSTEM (OCS) IS DESCRIBED AND ITS USE OF RING TECHNOLOGY WITH CONTROL DISTRIBUTED AMONG ITS MULTIPLE PROCESSORS IS DISCUSSED. THE OCS DISTRIBUTED FILE SYSTEM, IS DESCRIBED IN DETAIL. THE FILE SYSTEM IS A HIERARCHICAL STRUCTURE WITH ONE IMPORTANT ADDITION: EACH LEVEL OF THE STRUCTURE BECOMES A SINGLE LEVEL DESCRIPTION OF THE ENTIRE STRUCTURE ABOVE IT. THE INTERESTING ASSOCIATED FAIL-SDFT CAPABILITIES ARE ALSO DISCUSSED. (ALSO UNDER 4.1,2)

FLETCHER, JDHN G., OCTOPUS COMMUNICATIONS STRUCTURE. (LAWRENCE LIVERMORE LAB., LIVERMORE, CA), CCMRCCN 73 - SEVENTH ANNUAL IEEE COMPUTER SOCIETY INTERNATIONAL COMERENCE. DIGEST OF PAPERS. *COMPUTING NETWORKS FROM MINIS THROUGH MAXIS -- ARE THEY FOR REAL?*, (SAN FRANCISCO, CA, FEBRUARY 27-28, MARCH 1, 1973), INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS INC*, NEW YORK, 1973, (LC 60-1628), P 21-23, 3 REFS

A DESCRIPTION OF THE LAWRENCE LIVERMORE LABORATORY'S OCTOPUS NETWORK IS PRESENTED IN THIS PAPER. OCTOPUS IS STRUCTURED WITH FOUR LARGE COMPUTERS AND MANY SUBNETWORKS WHICH EACH PROVIDE A SERVICE TO THE LARGE COMPUTERS SUCH AS REMOTE INPUT/OUTPUT, TERMINAL INTERACTION AND FILE STORAGE. IT IS PROPOSED THAT THIS STRUCTURE IS DUITE FLEXIBLE AND ADARTARI F.

GOODLETT, JIN, JOE MARINO, UNITED AIR LINES' PLACE ON ON-LINE DATA PROCESSING, (UNITED AIR LINES, DENVER, CD), COMPCON 73 - SEVENTH ANNUAL IEEE COMPUTER SOCIETY INTERNATIONAL COMFERENCE. DIGEST OF PAPERS, 'COMPUTING NETWORKS FROM HINIS THROUGH MAXIS -- ARE THEY FOR REAL?', (SAN FRANCISCO, CA, FEBRUARY 27-28, MARCH I, 1973), INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS IN.', NEW YORK, 1973, (LC 60-1628), P 219-221, 2 REFS

THREE SYSTEMS ARE DESCRIBED RELATED TO THE OATA PROCESSING AND RESERVATION INFORMATION NEEDS OF UNITED AIR LINES, THE INSTAMATIC SYSTEM MAS UTILIZED FOR ELEVEN YEARS BEFORE APOLLO (UNITED'S VERSION OF IBM PARS) BECAME THE SOURCE OF ALL RESERVATIONS INFORMATION. NOW A NEW NETWORK MANAGEMENT SYSTEM IS BEING PLANNED WHICH WILL HANDLE RESERVATIONS AND OTHER DATA PROCESSING COMMUNICATION NEEDS, CHARACTERISTICS OF THESE SYSTEMS ARE GIVEN. (ALSO UNDER 4.1.2)

HADDON, B. K., M. W. WHITELAW, AN OPERATING SYSTEM FOR A COMPUTER NETWORK, (SYONEY, UNIV, OF, (AUSTRALIA)), PROCEEDINGS OF FOURTH AUSTRALIAN COMPUTER CONFERENCE, VOLUME I, (ADELAIDE, (AUSTRALIA), AUGUST II-IS, 1969), GRIFFIN PRESS, NETLEY, (SOLTH AUSTRALIA), 1969, P 255-26D, 12 REFS

THIS ARTICLE, ALTHOUGH SOMEWHAT DATED, PRESENTS AN IN DEPTH CONSIDERATION OF TYPICAL PROBLEMS ENCOUNTERED WHEN TORNING A COMPUTER NETWORK, THE PARTICULAR NETWORK OESCRIDED WAS DESIGNED AND OF THICKL PROBLEMS ENCOUNTERED WHEN OEPARTMENT AT THE UNIVERSITY OF SYONEY AND CONSISTED OF FIVE COMPUTERS, FROM FOUR MANUFACTURERS, AS WELL AS A LARGE RANGE OF INPUT/OUTPUT EQUIPMENT, (LISO UNDER 3.4.2)

ARCHARIK, J. ROBERT, TYMNET, PRESENT AND FUTURE. (TYMSHARE INC., CUPERTINO, CA). EASCON *75 RECORD, IEEE ELECTRONICS AND AEROSPACE SYSTEMS CONFERENCE, (MASHINGTON, DC, SEPTEMBER 29-OCTOBER 1, 1975). INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YORK, 1975, IEEE 75-CHO-998B-S-EASCON, (LC 73-2277), P 124-A--124-G HARCHARIK

TYMNET WAS DESIGNED TO HANDLE LOW SPEED COMMUNICATIONS BETWEEN INTERACTIVE TERMINALS AND HOST COMPUTERS. THERE ARE BASICALLY TWO TYPES OF HOSTS SERVICED BY THE COMMUNICATION NETWORK: TYMSHARE OWNED HOSTS WHICH OFFER TIME-SHARING SERVICES VIA TYMNET, AND NON-TYMSHARE GWNED HOSTS WHICH USE THE NETWORK TO SERVE THEIR COMPUTER USERS. THE THEME TYPES OF REMOTE TYMSAT (TERMINAL SUPPORT), BASE TYMSAT (INTERFACE TO TYMSHARE HOSTS) AND TYMCOM III (INTERFACE TO NON-TYMSHARE HOSTS). INCLUDED IN THE DISCUSSION ARE DESCRIPTIONS OF TYMNET IS AND 2:D.

SSING, THOMAS E,, RAYMONO M, HAMPTON, GERALO W, BAILEY, ROBERT S. GARDELLA, A LOOP NETWORK FOR GENERAL PURPOSE DATA CCMMUNICATIONS IN A HETEROGENEOUS WORLO. (NATIONAL SECURITY AGENCY, FORT MEADE, MO), Data Networks: Analysis and design, Thiro Data communications Symposium. (St. Petersburg, FL, November 13-15, 1973), INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YORK, 1973, IEEE CN-73-CHDB2B-4C, P BB-96, 21 REFS

THIS PAPER DESCRIBES A PACKET SWITCHING DATA COMMUNICATIONS NETWORK UNDER DEVELOPMENT AT THE NATIONAL SECURITY AGENCY, SUCCESSFUL IMPLEMENTATION OF THIS EXPERIMENTAL NETWORK WILL PROVIDE THE BASIS FOR A FUTURE GENERAL-PURPDSE, FIGH BANDWIDTH DATA COMMUNICATIONS NETWORK, THIS FUTURE NETWORK WILL SERVICE A LARGE, HETEROGENEOUS GROUP OF COMPUTERS, BATCH TERMINALS, AND CONVERSATIONAL TERMINALS TO FORM A GENERAL PURPDSE NETWORK OF COMPUTING RESOURCES,

CART, FRANK E., ROBERT E. KAHN, S. M. ORNSTEIN, WILLIAM R. CROWTHER. DAVID C. WALDEN, THE INTERFACE MESSAGE PROCESSOR FOR THE ARPA COMPUTER NETWORK. (BOLT, BERANEK AND NEWMAN INC., CAMBRIDGE, MA), AFIPS PROCEEDINGS, 1970 SPRING JOINT COMPUTER CONFERENCE. VOLUME 36, (ATLANTIC CITY. NJ. MAY S-7, 1970), AFIPS PRESS. MONTVALE, NJ. 1970, AFIPS CONFERENCE PROCEEDINGS, (LC SS-44701), P SSI-S67, 35 REFS FEART -

THIS IS THE PRIMARY PUBLISHED OETAILED DESCRIPTION OF THE ARPA NETWORK COMMUNICATIONS SUBNET, CONSIDERABLE ATTENTION WAS GIVEN IN THE DESIGN TO ELIMINATING CONGESTION THROUGH THE USE OF 'LINKS', BUT THE PRECAUTIONS STILL WERE INADEQUATE TO ELIMINATE MASSIVE CONGESTION UNDER CERTAIN CONDITIONS, NECESSITATING REDESIGN AND MODIFICATIONS IN 1972 BEFORE SIGNIFICANT NET LOADING COULD DE SUPPORTEO. THERE IS EMPHASIS ON THE SELECTION OF THE RUGEDIZED HONEYWELL DOP SIG TO REDUCE MEAN TIME BETWEEN FAILURE, A PRACTICE THAT HAS SINCE BEEN FOUND UNNECESSARY. AN APPARENT WEAKNESS OF THE PAPER IS THE SHOWING OF CHARTS OF NETWORK TRANSIT TIMES FOR AN UNLDADED (LIGHTLY LOADED) NET, WITH AN IMPLICATION THAT THE DESIGN GOAL OF LESS THAN A HALF SECOND AVERAGE ONE WAY TRANSIT TIME FOR THE LDADEE NET HAS BEEN OR WILL BE MET;

HERNOON, EOWIN S., HERBERT J, STERNICK, JOHN W. BENOIT, ROY O. BEVERIOGE, PAUL BRUCE, IRA W. COTTON, JEAN ISELI, RANVIR K. TREHAA, NOREEN O. WELCH, O. C. WOOO, PROTOTYPE WWWCCS INTERCOMBUTER NETWORK (PWIN) DEVELOPMENT PLAN, MITRE CORP., WASHINGTON. OC.1 MAY TI, MC NTR-GIBL AF FI9620-71-C-ODD2, 1409A, I3 REFS

A DETAILED PLAN FOR DEVELOPMENT OF A PROTOTYPE WWACCS (WORLD WIDE HILITARY COMMAND AND CONTROL SYSTEM) INTERCOMPUTER NETWORK IS CONTAINED IN THIS REPORT, IT INCLUDES A DESCRIPTION OF THE PROCUREMENT AND DEVELOPMENT ACTIVITIES TO BE UNDERTAKEN BY THE DEFENSE COMMUNICATIONS SYSTEM (DCS) AND THE JOINT TECHNICAL SUPPORT ACTIVITY (JTSA) AS WELL AS AN EXTENSIVE EXPERIMENTATION PROGRAM, THIS DEVELOPMENT PLAN IS BASED UPON AN EARLIEN VERSION "PROPOSED IMPLEMENTATION PLAN FOR A WWACCS INTERCOMPUTER NETWORK, IN CATEGORY 31.1.1, WHICH HAS BEEN EXTENSIVE (ALSO UNDER S.9)

INITIAL DESIGN FOR INTERFACE MESSAGE PROCESSORS FOR THE ARPA COMPUTER NETWORK, BOLT, BERANEK AND NEWMAN INC., CAMBRIDGE, Ma, Jan 69, BBN R-1763, DAMC IS-69-DI79, 76P

THIS GENERAL DESCRIPTION OF BOTH THE HAROWARE AND SOFTWARE DESIGN OF THE ARPA NETWORK INTERFACE MESSAGE PROCESSOR (IMP) IS A RATHER EARLY DOCUMENT REFERRING TO A NON-RUGGEOIZED IMP AND MAKING MINIMAL REFERENCE TO RECOGNIZED BUT UNRECONCILED PROBLEMS SUCH AS REASSEMBLY MESSAGE DUEUING. THE MECHANISM FOR RESOLVING HOST COMPUTER WORD LENGTH DIFFERENCES AND THE GENERAL IMP-TO-IMP PROTOCOL ARE DESCRIBED, OVERALL MESSAGE FLOW AND THE CONCEPT OF MESSAGES OIVIDED INTO PACKETS ARE SUMMARIZED.

INTERFACE MESSAGE PROCESSORS FOR THE ARPA COMPUTER NETWORK, DUARTERLY TECHNICAL REPORT NO, I, BOLT, BERANEK AND NE #MAN INC., CAMBRIDGE, MA, APR 69, 2 JAN-3I MAR 69, BBN R-I783, BBN DTR-I, DAHC 15-69-DI79, I4P

THE CONTENTS OF THIS QUARTERLY TECHNICAL REPORT ARE AS FOLLOWS: HAROWARE DESIGN, SOFT#ARE DEBUGGING, MULTIPLE HOSTS ON AN IMP, AND ROUTING ALGORITHMS. THE HAROWARE DESIGN SECTION CONTAINS A LISTING OF FEATURES WHICH HAVE BEEN MCDIFIED ON THE HONEYWELL SIG FOR USE IN THE ARPA NETWORK, THIS INFORMATION DOES NOT APPEAR IN ANY OTHER DOCUMENT AND MAY BE OF INTEREST. THE OTHER SECTIONS OF THE REPORT HAVE BEEN DESOLETED BY LATER DEVELOPMENTS.

INTERFACE MESSAGE PROCESSORS FOR THE ARPA COMPUTER NETWORK, QUARTERLY TECHNICAL REPORT NO. 10, BOLT, BERANEK AND NEWMAN INC., CAMBRIDGE, MA, JUL 7I, I APR-30 JUN 7I, BBN R-2175, BBN OTR-10, ARPA DAHC-IS-69-C-0179, I7P

THE CONTENTS OF THIS QUARTERLY TECHNICAL REPORT ARE AS FOLLOWS: NETWORK WORKING GROUP PARTICIRATION, TERMINAL IM THE CONTENTS OF THIS QUARTERLY TECHNICAL REPORT ARE OBSOLETE,

INTERFACE MESSAGE PROCESSORS FOR THE ARPA COMPUTER NETWORK. OUARTERLY TECHNICAL REPORT NO. 11. BOLT. BERANEK AND NEWMAN INC., CAMBRIDGE, MA, OCT 71, 1 JUL-30 SEP 71, BBN R-2270, BBN OTR-11, ARPA OAHC-15-69-C-0179, 7P

THIS QUARTERLY TECHNICAL REPORT RRIMARILY COVERS THE TERMINAL IMP (TIP). ALL OF THE INFORMATION IN THIS QUARTERLY TECHNICAL REPORT HAS BEEN SUPERSEDED BY SUBSEDUENT DOCUMENTS

INTERFACE MESSAGE PROCESSORS FOR THE ARPA COMPUTER NETWORK, OUARTERLY TECHNICAL REPORT NO, 12, BOLT, BERANEK AND NEWMAN INC., CAMBRIDGE, MA, JAN 72, 1 OCT-31 OEC 71, BBN R-2309, BBN OTR-12, DAHC 15-69-C-0179, (A0-736 213).

A SUMMARY OF IMP/TIP PROBLEMS AND DEVELOPMENTS IS PRESENTED. THE DIFFICULTY IN SERVICING REMOTE BATCH TERMINALS THROUGH THE TIP IS DISCUSSED AND A SOLUTION RELATED TO HAVING AN ATTACHED MODEM PERFORM ERROR DETECTION/CORRECTION IS PROPOSED. A DISCUSSION OF A NEW TYPE OF IMP CALLED A HIGH SPEED MODULAR IMP IS GIVEN BUT DETAILS ARE LACKING. USER REACTIONS TO THE TIP ARE SUMMARIZED AS FAVORABLE TO THE TIP, BUT DISSATISFIED WITH THE LACK OF AVAILABILITY OF NETWORK RESOURCES. A CETAILED DESCRIPTION OF THE IMP-TO-DISTANT-HOST INTERFACE IS GIVEN.

INTERFACE MESSAGE PROCESSORS FOR THE ARRA COMPUTER NETWORK, OUARTERLY TECHNICAL REPORT NO, 13, BOLT, BERANEK AND NEWMAN INC., CAMBRIDGE, MA, APR 72, I JAN-30 APR 72, BBN R-2353, BBN QTR-13, CAMC IS-69-C-0179, 31P

THE CONTENTS OF THIS QUARTERLY TECHNICAL REPORT ARE AS FOLLOWS: TIP MAGNETIC TAPE OPTION, BUFFERING REQUIREMENTS FOR SPECIAL CIRCUITS, TRANSMISSION AND FLOW CONTROL. THE SECTION ON TIP MAGNETIC TAPE OPTION DESCRIBES THE OPTION'S CAPABILITIES AND COMMANDS FOR USING THIS FEATURE. THE SECTION ON BUFFERING REQUIREMENTS CONTAINS A OFTAILEO ANALYTIC DISCUSSION OF THE EFFECT OF USING LINE SPECOS OTHER THAN THE STANDARD SO KILDBIT/SECOND FOR IMM TO IMP COMMUNICATIONS. EXTENSIVE TABLES AND COMPANY ARE PRESENTED FOR THE OTA WHICH IS OFVELOPO, THE ALGORITHM EMPLOYED PROVIDES FOR THE PR ALLOCATION OF SPACE FOR MESSAGES FROM IMP TO IMP AND FOR CONTROL OVER THE TOTAL NUMBER OF MESSAGES WHICH MAY BE IN TENNET. TRANSIT BETWEEN ANY TWO PARTICULAR IMP'S. (ALSO UNDER 2.1.2)

INTERFACE MESSAGE PROCESSORS FOR THE ARPA COMPUTER NETWORK. QUARTERLY TECHNICAL REPORT NO. 14, BOLT, BERANEK AND NEWMAN CAMBRIDGE, MA, JUL 72, I APR-30 JUN 72, BBN 0TR-14, BBN R-2396, ARPA DAHC-IS-69-C-0179,

THE FIRST PART OF THIS REPORT IS OEVOTEO TO PROBLEMS ENCOUNTERED IN LOADING AND PROPAGATING A NEW VERSION OF THE ARPANET IMP OPERATING SYSTEM. SOLUTIONS ARE PROPOSED TO MAKE TRANSITIONS TO NEW VERSIONS OF THE SOFTWARE SMOOTHER. THE SECOND PART OF THE RERORT DESCRIBES THE HIGH SPEED MODULAR IMP (HSMIMP) AND JUSTIFIES ITS DESIGN. THE HSMIMP MAS A THRUGHPUT OF 10 TIMES THAT OF A NORMAL IMP. A MULTIPROCESSOR CONFIGURATION WITH SHARED MEMORIES WAS CHOSEN. THE PROCESSOR SELECTED IS A LOCKHEED SUE MINICOMPUTER.

INTERFACE MESSAGE PROCESSORS FOR THE ARPA COMPUTER NETWORK, OUARTERLY TECHNICAL REPORT NO, IS, BOLT, BERANEK AND NEWMAN INC., CAMBRIDGE, MA, OCT 72, I JUL-30 SEP 72, BBN OTR-IS, BBN R-2468, ARRA OAHC-1S-69-C-0179, ISP

THIS QUARTERLY PROGRESS RERORT COVERS THE FOLLOWING TOPICS: TIP MAGNETIC TAPE OPTION, SATELLITE TRANSMISSION FLOW CCNTRCL TECHNIQUES, AND PROGRAM ORGANIZATION FOR THE HIGH SPECO MODULAR IMP (HSMIMP), REVISIONS TO THE PADTOCCLS FOR THE MAGNETIC TAPE CRTION ARE DESCRIBEO, VARIOUS CONTROL TECHNIQUES FOR A SATELLITE CHANNEL ARE DESCRIBED AND ONE IS RECOMMENDED. A NEW PROGRAMMING TECHNIQUE THAT REQUCES THE OVERHEAD IN INTERRUPT-ORIVEN SYSTEMS IS DESCRIBED ON THE HSMIMP.

- INTERFACE MESSAGE PROCESSORS FOR THE ARPA COMPUTER NETWORK, OUARTERLY TECHNICAL REPORT NO. 16, BOLT, BERANEK AND NEWMAN INC., CAMBRIDGE, MA, JAN 73, 1 OCT-31 DEC 72, BBN R-2499, DAHC IS-69-C-0179, 4IP, 7 REFS (ANNOTATION UNDER 2.2)
- INTERFACE MESSAGE PROCESSORS FOR THE ARPA COMPUTER NETWORK, QUARTERLY TECHNICAL REPORT NO. 2, BOLT, BERANEK AND NEWMAN INC., CAMBRIDGE, MA, JUL 69, 1 APR-30 JUN 69, BBN R-1837, BBN OTR-2, OAHC 15-69-0179, ISP

PROGRAM DESIGN FOR THE OPERATIONAL INTERFACE MESSAGE PROCESSOR (IMP) AND NETWORK MEASUREMENTS ARE COVERED IN THIS DUARTERLY TECHNICAL REPORT. MUCH OF THE INFORMATION PRESENTED IS NOW OBSOLETE. ALSO UNDER 2.21

INTERFACE MESSAGE PROCESSORS FOR THE ARPA COMPUTER NETWORK, OUARTERLY TECHNICAL REPORT NO. 3. BOLT, BERANEK AND NEWMAN INC., CAMBRIDGE, MA. DCT 59, I JUL-30 SEP 69, BBN R-1890, BBN DTR-3, DAHC IS-69-C-0179, IDE

TFIS QUARTERLY TECHNICAL REPORT COVERS IMR HAROWARE CHECKOUT AND INSTALLATION, SOFTWARE DEVELOPMENT, AND RROJECTED IMP DERFORMANCE. THE FIRST TWO SECTIONS OF THIS REPORT ARE NOW OBSOLETE, THE SECTION ON PROJECTED IMP PERFORMANCE MAY BE OF INTEREST; HOWEVER, NOTE THAT FIGURE 2 WHICH SHOULD SHOW A CURVE OF MAXIMUM THROUGHPUT AS A FUNCTION OF MESSAGE LENGTH HAS BEEN ONITED.

INTERFACE MESSAGE PROCESSORS FOR THE ARPA COMPUTER NETWORK, QUARTERLY TECHNICAL REPORT NO. 3, BOLT, BERANEK AND NEWMAN INC., CAMBRIDGE, MA, OCT 73, I JUL-30 SEP 73, AF F08606-73-C-0027, (88NI R-2667), 20P

ACTIVITIES DESCRIBED IN THIS REPORT ARE: STUDY DF ROUTING ALGORITHMS; THE SATELLITE IMP; AND THE TERMINAL IMP (TIP). A COMPLETE STATUS RERORT ON THE TIP EFFORT ADDRESSES THE FOLLOWING: FABBICATION, INSTALLATION AND MAINTENANCE; DOCUMENTATION AND THE TIP USERS GROUP; TERMINAL AND MODEM HANDLING CAPABILITIES; MAQNETIC TAPE OPTION; USE DF RESOURCE SHARING EXECUTIVE (RSEXEC); SOFTWARE IMPROVEMENTS; AND BANDWIDTH CARABILITIES. OPTION; USE OF RES (ALSO UNDER 3.3.2)

INTERFACE MESSAGE PROCESSORS FOR THE ARPA COMPUTER NETWORK, QUARTERLY TECHNICAL REPORT NO, 4, BOLT, BERANEK AND NEWMAN INC., CAMBRIDGE, MA, JAN 70, I OCT-31 OEC 69, BBN R-1928, BBN OTR-4, DAHC IS-69-C-0179, IOP

THE CONTENTS OF THIS OUARTERLY TECHNICAL REPORT ARE AS FOLLOWS: SOFTWARE DEVELOPMENT, HAROWARE DEVELOPMENT, PHONE LINE TEST RROGRAM, HOST PROTOCOL. FEATURES IN THE IMP SOFTWARE ALLOWING FOR FOUR SETS OF MEASUREMENT FACILITIES ARE DESCRIBED. THE BRIEF DESCRIPTION OF A PHONE LINE TEST PROGRAM FOR THE 50 KILOBIT COMMUNICATION CIRCUITS MAY ALSO BE OF INTEREST. THE OTHER SECTIONS HAVE BEEN SUPERCEDED BY SUBSEDUENT REPORTS.

INTERFACE MESSAGE PROCESSORS FOR THE ARRA COMPUTER NETWORK, OUARTERLY TECHNICAL REPORT NO. 5, BOLT. BERANEK AND NEWMAN INC., CAMBRIDGE, MA, APR 70, 1 JAN-31 MAR 70, BBN R-1966, BBN OTR-5, ARPA OAHC-15-69-C-0179. 14P

THE CONTENTS OF THIS QUARTERLY TECHNICAL REPORT ARE AS FOLLOWS: SOFTWARE DEVELOPMENT, HAROWARE DEVELOPMENT, NETWORK TESTING, PHONE LINE TEST PROGRAM. ITEMS OF INTEREST IN THIS REPORT INCLUDE A MODEM SIMULATOR BEING BUILT TO SIMULATE SIX FULL-DUPLEX COMMUNICATION CIRCUITS TOGETHER WITH ATTACHED MODEMS AND EXTENSIONS TO THE PHONE LINE TEST PROGRAM DESCRIBED IN QUARTERLY TECHNICAL REPORT NO. 4.

INTERFACE MESSAGE PROCESSORS FOR THE ARRA COMPUTER NETWORK, QUARTERLY TECHNICAL REPORT NO, 6, BOLT, BERANEK AND NEWMAN INC., CAMBRIDGE, MA, JUL 70, 1 ARR-30 JUN 70, BBN R~2003, BBN OTR-6, ARPA DAHC-15-69-C-0179, I3P

THE CONTENTS OF THIS QUARTERLY TECHNICAL REPORT ARE AS FOLLOWS: SOFTWARE DEVELORMENT, HAROWARE, NETWORK TESTING, NETWORK CONTROL CENTER, ITEMS OF INTEREST IN THIS QUARTERLY TECHNICAL REPORT INCLUDE DESCRIPTION OF A NETWORK LOAD SIMULATOR AND SOME EMPIRICAL DATA REGARDING THROUGHRUT.

INTERFACE MESSAGE PROCESSORS FOR THE ARPA COMPUTER NETWORK, DUARTERLY TECHNICAL REPORT NO. 7, BOLT, BERANEK AND NEWMAN INC., CAMBRIDGE, MA, OCT 70, I JUL-30 SEP 70, BBN R-2059, BBN OTR-7, DAHC IS-69-C-0179, I2P

THE CONTENTS OF THIS OUARTERLY TECHNICAL REPORT ARE AS FOLLOWS: INP PROGRAM OF VELOPMENT, TERMINAL IMP, NETWORK Control center, host protocol, the preliminary design of the terminal imp is described, however, all of the cont of this duratienty technical report have been superceded by subsequent Reports. THE CONTENTS (ALSO UNDER S. I)

INTERFACE MESSAGE PROCESSORS FOR THE ARPA COMPUTER NETWORK, OUARTERLY TECHNICAL REPORT NO. 8, BOLT, BERANEK AND NEWMAN INC., CAMBRIDGE, MA, JAN 71, 1 OCT-31 DEC 70, BBN R-2103, BBN OTR-8, DAHC 15-69-C-0179, 13P

THE CONTENTS OF THIS OUARTERLY TECHNICAL REPORT ARE AS FOLLOWS: TERMINAL IMP, NETWORK CONTROL CENTER, THROUGHPUT AND PROTOCOL STUDY, THIS OUARTERLY TECHNICAL REPORT IS MOST NOTABLE FOR ITS SAMPLE OF HOURLY SUMMARY INFORMATION PRODUCEO BY THE NETWORK CONTROL CENTER. (ALSO UNDER S.I)

BIELIGGRAPHY

INTERFACE MESSAGE PROCESSORS FOR THE ARPA COMPUTER NETWORK, OUARTERLY TECHNICAL REPORT NO. 9, BOLT, BERANEK ANO NEWMAN INC., CAMERIOGE, MA, APR 7I, 1 JAN-31 MAR 71, BBN R-2123, BBN OTR-9, ARPA OAHC-13-69-C-0179, IIP

THIS QUARTERLY TECHNICAL REPORT CONTAINS A DESCRIPTION OF THE TERMINAL IMP (TIP) MULTI-LINE CONTROLLER, THE OTHER SECTIONS ON NETWORK THROUGHPUT AND PROTOCOLS ARE DESOLETE.

JORDAN. BERNARD W.. JP+, ERIC L+ BADTZ, C+MUP--NORTHWESTERN UNIVERSITY'S MULTIMICROCOMPUTER NETWORK, (NORTHWESTERN UNIV .. EVANSTON. IL).

UNIV. EVANSION, 12, PROCEEDINGS OF THE 1974 SYMPOSIUM, COMPUTER NETWORKS: TRENDS AND APPLICATIONS, (GAITHERSBURG, MO, MAY 23, 1974), INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YORK, 1974, 74CH083S-9C, P SI-SS, 6 REFS

NORTH WESTERN UNIVERSITY IS BUILDING A MULTIMICROCOMPUTER NETWORK AS A TOOL FOR RESEARCH IN NETWORKING AND HIGH LEVEL COMPUTER CONSTRUCTION. ALTHOUGH THE INTEL BOOB MICROPROCESSOR CHIP WAS CHOSEN, WANY OF THE CONCLUSIONS ORAWN FROM THIS PPOJECT COULD BE APPLICABLE TO OTHER PROCESSORS WITH SIMILAR PIN-OUT AND SPEED LIMITATIONS. THIS PAPER DISCUSSES THE SYSTEM HARGWARE AND SOFTWARE CONFIGURATION, TIMING CONSIDERATIONS, BUS PROTOCOLS, AND HARGWARE GEBUGGING TECHNIQUES UTILIZED.

KIRSTEIN, PETER T., UNIVEPSITY COLLEGE, LONDON, ARPANET PROJECT. ANNUAL REPORT. UNIVERSITY COLLEGE, LONDON, (ENGLAND), OEPT. OF STATISTICS AND COMPUTER SCIENCE, DEC 74, I JUL 73-30 SEP 74. UC TR-17, DNR N00014-74-C-2080, S9P, 24 REFS

THIS REPORT DESCRIBES THE ACTIVITIES OF THE UNIVERSITY COLLEGE LONDON (UCL) GROUP IN CONNECTION WITH ARPANET OURING THE PEPORTING PERIOD. THE CONNECTION OF A HOST TO ARPANET BY A FRONT-END PROCESSOR, WITH NO SPECIAL RESIDENT SOFTWARE IN THE MAIN MOST, WAS EFFECTED AND THIS WORK IS DESCRIBED IN DETAIL. THE SUBJECT OF INTERCONNECTION OF NETWORKS IS ALSO ADORE S SED (ALSO UNDER 3.3.2)

KUC, FRANKLIN F., NORMAN ABRAMSON, SOME ADVANCES IN RADIO COMMUNICATIONS FOR COMPUTERS, (HAWAII. UNIV. OF. HONOLULU. OFT. OF LECTRICAL BRINEERING, OFT. OF LECTRICAL BRINEERING, CCMPCCN 73 - SEVENTH ANNUAL IEEE COMPUTER SOCIETY INTERNATIONAL CONFERENCE. DIGEST OF PAPERS, *COMPUTING NETWORKS FROM MINIS THROUGH MAXIS -- ARE THEY FOR REAL?*. (SAN FRANCISCO, CA. FEBRUARY 27-28, MARCH I, 1973), INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS INC. NEW YORK, 1573, (LC 60-1628), P S7-60, 7 REFS

THE ALDHA SYSTEM, AN EXPERIMENTAL UHF RADID COMPUTER COMMUNICATION NETWORK, IS DESCRIBED IN THIS PAPER INCLUDING THE PRESENT CONFIGURATION, THE HOST INTERFACE (MENEHONE), SOFTWARE PROGRAMS DEVELOPED, AND USE OF SATELLITE COMMUNICATIONS, THE PRESENT DNGDING WORK AND A SHORT LOOK INTO FUTURE OEVELOPMENTS OF THE PROJECT ARE ALSO GIVEN. COMMUNICATIONS. T (ALSO UNDER 3.2.1)

XAY, ODUGLAS 8., DONALO Ρ. KARP, JAMES W. MEYER, POBERT S. NACHBAR, EXPLORATORY RESEARCH ON NETTING AT IBM. (INTERNATIONAL BUSINESS MACHINES CORP., RESEARCH CENTER), ABRAMSCN. NORMAN, FRANKLIN F. KUO, COMPUTER-COMMUNICATION NETWORKS, PRENTICE-HALL INC., ENGLEWOOD CLIFFS, NJ, 1973, COMPUTEP APPLICATIONS IN ELECTRICAL ENGINEERING SERIES, (TKSI02.S.4283), P 457-484 MCKAY. DOUGLAS 8..

THIS CHAPTER DISCUSSES TWO OF IBM+S EXPERIMENTAL COMPUTER NETWORKS PROJECTS. THE FIRST, THE TSS NETWORK, IS A Homogenous net whose nodes consist exclusively of ibm 360/67 computers, the second project, network 440, is an Infoncencous net with disparate machines running under different deparating systems at every node. In this system, the Various network processors are viewed as comprising one large multiprocessor, thus different steps of a single job can be executed on different participatings terms.

WILLER. EOWARD F.. JR.. EOWARD L. PRICHARD, PROCESS CONTROL AND FILE MANAGEMENT PROBLEMS IN LARGE MINICOMPUTER LLER' EUWARD F., JN.: EUWARD L. PRICHARD, PROLESS CONINCL AND FILE MARAGEMENT PROBLEMS IN LARGE MINICOMPUTER NETWORKS, (GENERAL RESEARCH CORP., SANTA BARBARA, CA). CCMPCCN 73 - SEVENTH ANNUAL LEEE COMPUTER SOCIETY INTENNATIONAL CONFERENCE. OIGEST OF PAPERS, "COMPUTING NETWORKS FROM MINIS THROUGH MAXIS - ARE THEY FOR REAL.", ISAN FRANCISCO, CA, FEBRUARY 27-28, MARCH I. 1973). INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS INC., NEW YORK, 1973, (LC 68-1628). P 199-20[, 3 REFS

PEHRSON, DAVID L,, AN ENGINEERING VIEW OF THE LRL OCTOPUS COMPUTER NETWORK, CALIFORNIA, UNIV. OF, LIVERMORE, LAWRENCE PADIATION LAB., 17 NOV 70, CU-LRL UCIO-IS754, 32P

A COMPLETE DESCRIPTION OF THE LAWRENCE PADIATION LABORATORY (LPL) OCTOPUS NETWORK IS GIVEN. THE FILE SYSTEM, WHICH IS COMMENTED GUESCHIPTION OF THE LAWRENCE FACIATION LABORATOWY(LEF) GUIDPOS NETWORK IS GIVEN: THE PICE SISTEM IS COMMON TO ALL OF THE PPOCESSOPS (COC 6600'S AND 7600'S), AND THE TELETYPE NETWORK, ALSO COMMON AND CUNTROLLI MINICOMPUTEPS, APE DESCRIDED IN DETAIL. PPODLEMS ATE WELL DOCUMENTED AND FUTURE PLANS APE OUTLINED, INCLUDING REMOTE JOB ENTRY SYSTEM, A CPT ASEO SYSTEM TO SUPPLEMENT THE TELETYPES, AND AN OPTICAL MASS MEMOPY. CONTROLLED B

FOMERANTZ, MOPRIS, LAWPENCE A, SAMES, OATA OISTRIBUTION NETWOPK FOR THE TABLON MASS STOPAGE SYSTEM, (OPPAPTMENT OF

MERANTZ, MOPRIS, LAWFENCE A, SARES, ONE OFFICIENTS (1997) OFFENSE, WASHINGTON, OC), CCMPCON 72 - SEVENTH ANNUAL IEEE COMPUTER SOCIETY INTERNATIONAL CONFEDENCE, DIGEST OF PAPEPS, *COMPUTING NETWORKS FROM MINIS THREUGH MAXIE - ARE THEY FOP PEAL?*. (SAN FRANCISCO, CA. FEBPUAPY 27-20, MARCH 1, 1973), INSTITUTE OF ELECTPICAL AND ELECTPONIC ENGINEERS INC., NEW YORK, 1973, (LC 68-1628), P 243-246, 2 PEFS

THE TABLON MARQWARE DESIGN AND IMPLEMENTATION ASPECTS OF CONNECTING DIFFERENT, REMOTE, LARGE SCALE COMPUTEPS INTO A LARGE MASS STOPAGE SYSTEM ARE DIFECTED. THE SYSTEM OF SIGN INVOLVED A SIMPLE, RELIABLE, CONTROLLES, SWITCHING AND BUFFEPING NETWORK. CHAPACTEPISTICS OF THE FOLLOWING ARE GIVEN: INTERFACE UNIT, CPU TO BUFFER SWITCH, MASS STOPAGE SYSTEM TO BUFFEP SWITCH, BUFFEP MEMORIES, SWITCH CONTROLLER, STOPAGE CONTROL PPOCESSOP AND THE COMMUNICATIONS TERMINAL AND COMMUNICATIONS DATA MULTIPLEXER.

VINDPAN, V. K., THAMPY THOMAS, CHARACTEPIZATION OF MULTIPLE MICROPPOCESSOR NETWORKS, (STANFOPD UNIV., CA), CCMPCON 73 - SEVENTH ANNUAL IEEE COMPUTER SOCIETY INTERNATIONAL COMPERENCE, OIGEST OF PAPERS. "COMPUTING NETWORKS FPOM MINIS THOUGH MAXIS -- APE THEY FOR RELA?'. (SAN FRANCISCO, CA. FEBPUARY 27-28, MAPCH I, 1973), INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEEPS INC., NEW YOPK, 1573, (LC 68-1628), P 133-137, 7 REFS CCMPCON 73

LSI HAS MADE POSSIBLE NEW DESIGNS, USES AND ECONOMIES OF COMPUTING SYSTEMS. THIS PAPEP STUDIES LSI MICPOPPOCESSOR ARCHITECTUPE AND PERFORMANCE AND GIVES AN EXAMPLE OF A MICPOPPOCESSOP NETWOPK. THE STUDY CONCLUDES THAT MICROPPOCESSOP NETWOPKS CAN BE CONFIGURED ECONOMICALLY TO BOOST THE SERVICE CAPABILITIES AND REQUCE RESOUPCE OVERHEADS OF A SYSTEM. IT ALSC POINTS OUT THAT THEPE IS A LIMIT TO THE NUMBER OF MICPOPPOCESSORS THAT CAN EFFECTIVELY BE CONNECTED TO SHAPE A PESSOURCE, WITHOUT PESULTING IN A DEGENEPATION OF THROUGHPUT AND PESPONSE. (ALSO UNDEP 2.I.I)

ROBEPTS, LAWRENCE G., BARPY O. WESSLER, THE APPA NETWOPK, (ADVANCEO RESEARCH PPOJECTS AGENCY. APLINGTON, VA. UTAH. UNIV. OF. SALT LAKE CITV), ABRAMSCN, NOPMAN, FRANKLIN F. KUO, COMPUTEP-COMMUNICATION NETWORKS, PPENTICE-HALL INC., ENGLEWOOD CLIFFS. NJ. 1973, COMPUTEP APPLICATIONS IN ELECTRICAL ENGINEEPING SEPIES. (TKSI02.S.A283), P 485-S00, B PEFS

THE APPA NETWORK WAS DESIGNED WITH TWO GOALS: TO OEVELOP AND TEST COMPUTER-COMMUNICATIONS TECHNIQUES, AND TO OF AN REFITS OF PESUPPES SHAFING FOR REMERS OF THE AREA COMMUNITY, AFTEP A SECTION DESCRIBING THE PROPERTIES OF A COMMUNICATIONS SYSTEM FOR INTERCONNECTING LARGE COMPUTERS, THE AUTHORS DESCRIBE THE APPA NETWORK, INCLUGED APE DISCUSSIONS OF CONFIGURATION, RELIABLITY, COMMUNICATION SYSTEM DESIGNS, NETWORK USES, AND FUTURE PLANS OF THIS NETWORK AND OF NETWORKS IN GENEPAL.

RUSCHITZKA, M. G., P. S. FABPY, THE PPIME MESSAGE SYSTEM, (CALIFORNIA, UNIV. OF, BERKELEY, COMPUTER SYSTEMS PESEAPCH PPOJECT) .

PPOLECT). CGMPCGN 73 - SEVENTH ANNUAL IEEE COMPUTEP SOCIETY INTERNATIONAL CONFEPENCE. DIGEST OF PAPEPS. *COMPUTING NETWOPKS FROM MINIS THROUGH MAXIS -- ARE THEY FOP PEAL?*. (SAN FRANCISCO. CA. FEBPUAPY 27-20. MAPCH I, 1973). INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEEPS INC., NEW YOPK, 1973. (LC 68-1628). P 125-128. 9 REFS

THE PPIME SYSTEM IS A MEDIUM-SIZED, GENERAL PURPOSE, MULTI-PROCESSOP, TIME-SHAPING SYSTEM UNDER DEVELOPMENT AT THE UNIVERSITY OF CALIFORNIA AT BERKELEY. THE MESSAGE SYSTEM, DESCPIBED IN THIS PAPER, COMBINES THE ADDRESSING GENERALITY OF A NETWORK MESSAGE SYSTEM WITH A COST CONSCILUS IMPLEMENTATION, DESIGN FACTOPS AND IMPLEMENTATION (ALSO UNDER 3.5.2)

CANTLEBURY, P. A., P. T. WILKINSON, K. A. BAPTLETT, THE OESIGN OF A MESSAGE SWITCHING CENTPE FOP A DIGITAL COMMUNICATION NETWORK, (NATIONAL PHYSICAL LAB., TEODINGTON, (ENGLAND)). INFOPMATION PROCESSING 66; PROCEEDINGS OF IFIP CONGPESS 1968. VOLUME 2--HAROWAPE, APPLICATIONS, (EDINBURGH, (SCOTLAND), AUGUST S-10, 1968). NOPTH-HOLLAND PUBLISHING CO., AMSTEPDAM, (NETHEPLANDS), 1969, IFIP CONGPESS PROCEEDINGS, (LC 65-24118), P 723-727, 3 REFS SCANTLEBURY .

THIS IS AN EARLY DESCRIPTION OF THE PROPOSED NATIONAL PHYSICS LABOPATOPY NETWORK IN ENGLAND, THE POPTION OF THE NETWORK DISCUSSED HERE IS THE STOPE-ANO-FORWARD TPUNK NETWORK AND THE SWITCHING CENTEPS WHICH PEPFORM THAT FUNCTION.

3.1.1 TECHNICAL DESCRIPTIONS

THE SWITCHING CENTERS ARE SMALL GENERAL PURPOSE COMPUTERS WITH SPECIAL MARDWARE JDINED BY HIGH SPEED LINKS INTO A DISTRIBUTED NETWORK, AN ADAPTIVE RDUTING SCHEME TO ACCOMMODATE DVERLOADS AND FAILURES IS ALSO DESCRIBED.

SCANILEBURY, R. A., A MODEL FOR THE LOCAL AREA OF A DATA COMMUNICATION NETWORK--OBJECTIVES AND MARDWARE ORGANIZATION, NATIONAL PHYSICAL LAB., TEODINGTON, (ENGLANO), DIV. OF COMPUTER SCIENCE, DCT 69, NPL-DCS COM-SCI-T.M.29, 179, ID RE TO REES

FUNCTIONAL DESCRIPTION OF THE COMPONENTS OF A MESSAGE SWITCHED NETWORK PRESENTLY BEING IMPLEMENTED BY THE DNAL FHYSICAL LABDRATORY IS PROVIDED. THE DISCUSSION CONCENTRATES ON THE LOCAL NETWORK WHERE ALL USERS CONNECT SINGLE SWITCHING CENTER. THE INTERCONNECTION OF THESE LOCAL NETWORKS RECEIVES LITTLE ATTENTION. ATIONAL PHYSICAL LABORATORY IS PROVIDED. TD A SINGLE SWITCHING CENTER. THE INTERCO (ALSD UNDER 3.2.2, 3.2.3)

TENKHOFF, PHILIP A., THE INFONET REMOTE TELEPROCESSING COMMUNICATION NETWORK--DESIGN, PERFORMANCE, AND DPERATION, (COMPUTER SCIENCES CORP., EL SEGUNDO, CA), THE SECCND INTERNATIONAL CONFERENCE DN COMPUTER COMMUNICATION, COMPUTER COMMUNICATION TODAY AND UP TD 1985, (STOCKHOLM, (SWEDEN), AUGUST 12-14, 1974), INTERNATIONAL COUNCIL DF ICCC, 1974, P 401-412, 3 REFS

FOUR UNIVAC 1108'S CURRENTLY ARE THE BASE OF THE COMPUTER SCIENCES CORPORATION INFORMATION NETWORK (INFORET), THE PRINCIPAL ELEMENT OF THE COMMUNICATIONS NETWORK IS THE REMOTE COMMUNICATIONS CONCENTRATOR (RCC) WHICH INTERFACES THE INFONET SYSTEM TO A VARIETY OF COMMUNICATIONS MEDIA. A NETWORK OVERVIEW, DESCRIPTION OF THE RCC, NETWORK RELIABILITY AND A LOOK AT THE FUTURE ARE SOME OF THE TOPICS DISCUSSED.

TYGIELSKI, RALPH E., GROWTH OF A NETWORK, (SBC OEVELOPMENT LAB., CAMPBELL, CA). PROCEEDINGS OF THE 1975 SYMPOSIUM-COMPUTER NETWORKSI TRENDS AND APPLICATIONS, (GAITHERSBURG, MO, JUNE 18, 1975), INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YORK, 1975, 75CH0973-BC, P 14-1B

THE COC/SBC DATA SERVICES NETWORK INTERCONNECTS THE PROCESSING ELEMENTS OF CALL/370. KRONDS TIME+SMARING, FOCUS AND THE COLVERS ONLY SERVICES INTO A NETWORK INTERCUMPERS IN PROCESSING ELEMENTS OF CALLESTO, KNONES TIME-SHAKING, FOCUS AND CALLESTO, ONLY SERVICES INTO A NETWORK COMPLEX COMPLEX CONSISTING OF A CHP AND OWER 46 REMOTE MINICOMPUTERS. THIS PAPER TRACES THE GROWTH OF THE COCYSGE OATA SEPVICES NETWORK TO ITS PRESENT FORM AND EXPLORES SOME OF THE PROBLEMS ENCOUNTERED IN ITS DESIGN AND IMPLEMENTATION.

LKINSON, P. T., A MODEL FOR THE LOCAL AREA OF A DATA COMMUNICATION NETWORK--SOFTWARE ORGANIZATION, NATIONAL PHYSICAL Lab., teodington, (England), div, of computer science, oct 69, NPL-ocs com-sci-t.M.29, 2DP. 6 REFS

THE NATIONAL PHYSICAL LABORATORY NETWORK IS DESCRIBED IN TERMS OF THE INTERACTION OF TERMINALS WITH THE NETWORK. THE NETWORK IS STAR CONNECTED AND ALLOWS ANY TERMINAL TO EXCHANGE INFORMATION WITH ANY OTHER TERMINAL VIA THE MESSAGE SWITCHING COMPUTER (MSC). THE CHARACTERISTICS OF THE OPERATING SYSTEM FOR THE MSC ARE SUMMARIZED. (ALSO UNDER 3+4+0+ 3+2+2)

ZARA, PHILIP E., AN AOP MANAGER'S VIEW OF THE CONFLUENCE OF OATA PROCESSING AND TELECOMMUNICATIONS, (ELECTRONIC SYSTEMS OIV., L.G., HANSCOM FIELD, MA), IEEE 1974 NATIONAL TELECOMMUNICATIONS CONFERENCE, (SAN DIEGD, CA. DECEMBER 2-4, 1974), INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YORK, 1974, IEEE P-74CH0902-7-CSCB, (LC S7-20724), P 468-475, 9 REFS

ONLY THE FIRST PAGE OF THIS ARTICLE DISCUSSES THE "CONFLUENCE OF DATA PROCESSING AND TELECOMMUNICATIONS" IN ANY GENERAL OR HISTORICAL TERMS. THE BULK OF THE ARTICLE IS A DESCRIPTION OF AN AIR FORCE AOP REQUIREMENTS STUDY AND THE NETWORK CONFIGURATION THAT WAS RECOMMENDED: AN ARPA-LIKE PACKET NETWORK BETWEEN BASES, WITH LOCAL CABLE FACILITIES FOR TERMINALS AND ON-BASE MINICOMPUTERS.

3. L.2 EVALUATION

AUPPERLE, ERIC M., MERIT NETWORK RE-EXAMINEO, (MICHIGAN, UNIV. OF, ANN ARBOR, MERIT COMPUTER NETWORK PROJECT), COMPCON 73 - SEVENTH ANNUAL IEEE COMPUTER SOCIETY INTERNATIONAL COMPERACE. 01GEST OF PAPERS. *COMPUTING NETWORKS FROM MINIS THROUGH MAXIS -- ARE THEY FOR REAL?*. (SAN FRANCISCO, CA. FEBRUARY 27-28, MARCH I, 1973), INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS INC.*. NEW YORK, 1973, (LC 68-1628), P 25-30, 2 REFS

THIS PAPER REVIEWS SOME OF THE DESIGN DECISIONS MADE FOR THE MERIT NETWORK IN THE LIGHT OF OPERATING EXPERIENCE. THE ORIGINAL GOALS AND OBJECTIVES OF THE MERIT PROJECT ARE GIVEN, AND A SHORT PROGRESS AND CURRENT STATUS REPORT IS INCLUCED.

INDER, R., N. ABRAMSON, F. KUO, A, DKINAKA, O, WAX, ALOMA PACKET BROADCASTING--A RETROSPECT, (BOLT, BERANEK AND NEWAN INC,, CAMBRIDGE, MA, HAWAII, UNIV, OF, HONOLULU, ALOHA SYSTEM). AFIPS CCNFERENCE PROCEEDINGS. VOLUME 44, 1975, NATIONAL COMPUTER CONFERENCE, (ANAHEIM, CA, MAY 19-22, 1975), AFIPS PRESS, MONTVALE, NJ, 1975, (LC 55-447DI), P 203-215, IS REFS BINDER. R..

WHILE PACKET BROADCASTING SYSTEMS CAN ACHIEVE THE SAME EFFICIENCIES AS PACKET SWITCHED NETWORKS, FOR LOCAL DISTRIBUTION DATA NETWORKS AND DATA NETWORKS USING SATELLITE CHANNELS, THEY HAVE SPECIAL ADVANTAGES. THOSE CHARACTERISTICS RELATED TO LOCAL DATA NETWORKS ARE DISTING SOL, THE PACKET BROADCASTING DISCUSSION IS BASED ON THE LESSONS LEARNED IN THE DESIGN AND IMPLEMENTATION OF THE ALDHART. (ALSO UNDER 3-5-1: 3-2-2)

- BROWN, GEORGE W., AN INTERUNIVERSITY INFORMATION NETWORK, 11, EVALUATION, (CALIFORNIA, UNIV, OF, IRVINE). KENT, ALLEN, ORRIN E, TAULBEE, ELECTRONIC INFORMATION HANOLING, (PITTSBURGH, PA, OCTOBER 7-9, 1964), SPARTAN BOOKS INC., WASHINGTON, OC, 1965, KNOWLEOGE AVAILABILITY SYSTEMS SERIES, (LC 65-17306), P 269-278 (ANNOTATION UNCER 1.1)
- NTOR, 0. G., M. GERLA, CAPACITY ALLOCATION IN OISTRIBUTED COMPUTER NETWORKS, (PRESENTED AT THE, SEVENTH INTERNATIONAL CONFERENCE ON SYSTEM SCIENCES, HONDLULU, HAWAII, JANUARY 1974), (CALIFORNIA, UNIV, OF, LOS ANGELES, NETWORK ANALYSIS CORP., GLEN COVE, NY), CANTOR. COMPERENCE UN SYSTEM SCHEINEES, MUNULULU, MAWAII, JANUART 1978), (CALIFORNIA, UNIV. UP, LUS ANGELES, NEIWURK ANALYS CORP., GLEN COVE, NY), KLEINROCK, LEONARO, COMPUTER NETWURK RESEARCH, 3D JUN 74, I JAN-30 JUN 74, ARPA DAHC-IS-73-C-0368, (AD-AODB 422), P 22-25, ID REFS

IN A COMPUTER COMMUNICATION NETWORK AVENANC MESSAGE DELAY IS A FUNCTION OF LINK CAPACITY AS WELL AS LINK DATA FLOW. GENERALLY ONLY DISCRETE CAPACITY VALUES ARE AVAILABLE! THEREFORE THE CAPACITY ALLOCATION PROBLEM MAY BE SOLVED USING INTEGER PROGRAMMING TECHNIQUES. THE SIGNIFICANCE OF THE WORK REPORTED HERE IS THAT IT PRESENTS AN ALGORITHM FOR FINDING THE OPTIMAL ALLOCATION OF CAPACITY IN DISTRIBUTED COMPUTER NETWORKS WHERE THE CHANNEL CAPACITIES MUST BE DRAWN FROM A DISCRETE SET. THIS IS AN IMPORTANT AND REALISTIC PROBLEM IN COMPUTER NETWORK DESIGN.

CERF, VINTON G., AN ASSESSMENT OF ARPANET PROTOCOLS, (STANFORO, UNIV. DF, CA), THE SECOND JERUSALEM CONFERENCE ON INFORMATION TECHNOLOGY, (JERUSALEM, (ISRAEL), JULY 29-AUSGUST 1, 1974), 1974, P 653-664, 14 REFS

SOME THEORETICAL AND PRACTICAL MDTIVATIONS FOR THE REDESIGN OF THE ARPANET COMMUNICATIONS PROTOCOLS ARE PRESENTED. ISSUES CONCERNING MULTIPACKET MESSAGES, HOST RETRANSMISSION, OUPLICATE DETECTION, SEQUENCING, AND ACKNOWLEDGMENT ARE OISCUSSED. SIMPLIFICATIONS FOR THE IMPINEP PROTOCOL ARE PRODOSED ON THE ASSUMPTION THAT NEW HOST LEVEL PROTOCOLS ARE ADOPTED. FAMILIARITY WITH THE CURRENT PROTOCOL DESIGNS IS PROBABLY NECESSARY SINCE MANY OF THE ARGUMENTS REFER TO DETAILS IN THE PRESENT PROTOCOL DESIGN. (ALSD UNDER 3.5)

- IAMOND.F.. R. JCHNSON. D. MCAULIFFE, SOME RECENT APPLICATIONS OF AUTOMATIC DATA PROCESSING TO TELECOMMUNICATIONS, (ROME AIR DEVELOPMENT CENTER, GRIFFISS AFB, NY), IEEE 1974 NATIONAL TELECOMMUNICATIONS CONFERENCE. (SAN DIEGO, CA, DECEMBER 2-4, 1974), INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YDRK, 1974, IEEE P-74CHD9D2-7-CSCB, (LC S7-20724), P 482-49D, 13 REFS (ANNOTATION UNDER 3.2.D) CIAMOND . F ...
- MERY, JAKES C., PROBLEMS AND PROMISES OF REGIONAL COMPUTER SHARING, (PENNSYLVANIA, UNIV, OF, PHILADELPHIA), Greenberger, Martin, Jolius Aronopsky, Jakes L. McKenney, William F. Massy, Networks for Research and education: sharing Computer and informaticn resources nationwide, mit press, cambridge, ma, 1973, p 199–198

THE AUTHOR DISCUSSES SOME OF THE PROBLEMS ENCOUNTERED IN THE OPERATION OF UNI-COLL, A REGIONAL COMPUTER FACILITY FORMED BY A NUMBER OF COLLEGES AND UNIVERSITIES IN THE DELAWARE VALLEY. HE ALSD DESCRIBES APPROACHES THAT MIGHT BE TAKEN TO ELIMINATE MANY OF THE PROBLEMS, (ALSD UNDER 5.0)

BIBL IDGRAPHY

FAYES, J. F., MODELING AN EXPERIMENTAL COMPUTER COMMUNICATION NETWORK, IBELL TELEPHONE LABS, INC., HOLMDEL, NJ), DATA NETWORKS: ANALYSIS AND DESIGN, THIRO DATA COMMUNICATIONS SYMPOSIUM. IST. PETERSBURG, FL. NDVEMBER 13-15, 1973), INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YORK, 1973, IEEE (N-73-CHO2E)-4C, P 4-11, 7 REFS

THE AUTHOR REPORTS THE RESULTS OF A PERFORMANCE STUDY OF AN EXPERIMENTAL COMPUTER COMMUNICATION NETWORK CURRENTLY BEING DESIGNED AND BUILT. THE FUNCTION OF THE NETWORK IS TO PROVIDE A FLEXIBLE COMMUNICATIONS MEDIUM BETWEEN COMPUTERS, USERS, AND PERIPHERALS. MATHEMATICAL MODELS WERE DEVELOPED IN ORDER TO GAIN INSIGHT INTO THE OPERATION OF VARIOUS SYSTEM COMPONENTS.

HOBGOOD, W. SANDS, EVALUATION OF AN INTERACTIVE-BATCH SYSTEM NETWORK, (INTERNATIONAL BUSINESS MACHINES CORP., YORKTOWN FEIGHTS, NY, THOMAS J. WATSON RESEARCH CENTER), IMM SYSTEMS JOURNAL, VCL II. ISSUE I. 1972, P 2-15, 7 REFS

THE COMBINATION OF TWO COMPUTER NETWORKS AS DESCRIBED IN THIS PAPER ILLUSTRATES THE PDTENTIAL FOR SIMILAR COMPLEMENTARY INTERCONNECTIONS IN A LARGER AND MORE GENERAL NETWORK. AN INTERACTIVE IBM 360/67 WITH A GODD DATA MANAGEMENT SYSTEM IS CONNECTED TO AN IBM 360/91, A HIGH THARDUGHPUT BATCH SYSTEM. THE CONNECTION IS HIERARCHICAL IN THAT TERMINAL USERS OF THE 67 CAN SUBMIT BATCH JOBS THROUGH TO THE 91. IN ADDITION, SMALLER COMPUTERS HAVE BEEN CONNECTED HIERARCHICALLY TO THE 67 AS AN INTERMEDIARY IN TRANSMITTING DATA TO THE 91, USING THE 67 TO PROVIDE A FRIENDLIER INTERFACE TO THE SMALLER COMPUTERS, DF PARTICULAR INTEREST ARE THE DISCUSSIONS OF MEASUREMENT DF DATA SET SIZE FOR TRANSFERS TO AND FROM THE 91 IN THIS CONFIGURATION AND OF THE STAGES OF SYSTEM INETWORK) TIMING THAT WERE NECESSARY TO ACHIEVE SUCCESSFUL DPERATION.

PEWELL, LYNN, W. S. CHOU, HOWARD FRANK, ANALYSIS OF ARCHITECTURAL STRATEGIES FOR A LARGE MESSAGE-SWITCHING NETWORK: A CASE STUDY, (NETWORK ANALYSIS CORP., GLEN COVE, NY), COMPCON 73 - SEVENTH ANNUAL IEEE COMPUTER SOCIETY INTERNATIONAL CONFERENCE, DIGEST DF PAPERS, *COMPUTING NETWORKS FROM MINIS THROUGH MAXIS - ARE THEY FOR REAL?', (SAN FRANCISCO, CA, FEBRUARY 27-28, MARCH 1, 1973), INSTITUTE DF ELECTRICAL AND ELECTRONIC ENGINEERS INC., NEW YORK, 1973, ILC 68-1628), P II8-123, 2 REFS (ANNOTATION UNDER 2.1.2)

INTERFACE MESSAGE PROCESSORS FOR THE ARPA COMPUTER NETWORK. DUARTERLY TECHNICAL REPORT ND, 16, BOLT, BERANEK AND NEWMAN INC., CAMBRIDGE, MA, JAN 73, I DCT-3I DEC 72, BBN R-2499, DAHC IS-69-C-D179, 4IP, 7 REFS IANNOTATION UNDER 2.2)

KAHN, RCBERT E., STATUS AND PLANS FOR THE ARPANET. (ADVANCED RESEARCH ÞROJECTS AGENCY, ARLINGTON, VA). GREENBERGER, MARTIN, JULIUS ARDNOFSKY, JAMES L. MCKENNEY, WILLIAM F. MASSY, NETWORKS FOR RESEARCH AND EDUCATION: SHARING Computer and information resources nationwide. Mit press, cambridge, MA, 1973, P. SI-SA, I. REFS

THE EVOLVING STRUCTURE OF THE ARPANET, BOTH IN CAPACITY AND CONNECTIVITY, MAKES IT POSSIBLE TO INCREASE THE WORK'S CAPACITY, THE AUTHOR DESCRIBES BRIEFLY THE DEVELOPMENT OF THE ARPANET AND PLANS FOR EXTENDING THE NETWORK NETWORK'S CAPACITY. CENCEPT,

KANN, RDBERT E., WILLIAM R. CROWTHER, A STUDY OF THE ARPA NETWORK DESIGN AND PERFORMANCE, BOLT, BERANEK AND NEWMAN INC.. CAMBRIDGE, MA, AUG 71, BBN 2161, DAHC IS-69-C-D179, 32P

THIS IS A VERY GODD STUDY OF KNOWN PROBLEMS IN THE ARPANET COMMUNICATIONS NETWORK AFTER DNE AND ONE-HALF YEAR'S EXPERIENCE. PROBLEMS ADDRESSED INCLUDE REASSEMBLY LOCKUP. STORE AND FORWARD LOCKING, CONGESTION, AND ROUTING FOR HIGH OATA RATES. SOLUTIONS TO EACH PROBLEM ARE POSED. IT IS ACKNOWLEDGED THAT FURTHER INVESTIGATION WICH MAY TAKE SOME TIME WILL BE NECESSARY TO SUCCESSFULLY SOLVE ALL OF THE PROBLEMS. THE DEPENDENCE OF THE COMMUNICATIONS NETWORK ON THE ATTACHED HOST COMPUTERS TO ACCEPT DATA IS EMPHASIZED. THUS, NETWORK THRDUGHPUT DEPENDS IN PART DN EXTERNAL PROCEDURAL FLOW RESTRICTIONS.

ZOHRAB A., DR., A FEASIBILITY STUDY OF COMPUTER SHARING: UCLA-CALTECH-USC, (SDUTHERN CALIFORNIA, UNIV. OF. KAPRIELIAN, ZOH LOS ANGELES), ECUCOM BULLETIN, VOL B. ISSUE I. SPRING 73, P 8-10 LANNOTATION UNDER L.I.

KORFHAGE, R. R., THE INDIANA REGIONAL COMPUTING NETWORK, IPURDUE UNIV., LAFAYETTE, IN), A FIRST REPORT OF AN EXPLORATORY PROGRAM OF REGIONAL COOPERATIVE COMPUTING ACTIVITIES, JAN 70, NSF CCR-7D-12, P 101-108,

THE EXPERIENCES OF THE INDIANA REGIONAL COMPUTING NETWORK IN ITS FIRST YEAR OF OPERATION ARE REPORTED. THIS NETWORK HAS A CENTRAL COMPUTER AT PURDUE UNIVERSITY SERVING TERMINALS THROUGHOUT INDIANA.

JRTZ, THOMAS E., THE NERCOMP NETWORK. (OARTMOUTH COLLEGE, MANOVER, NH). GREENDERGER, MARTIN, JULIUS ARONOFKY, JAMES L. MCKENNEY, WILLIAM F. MASSY, NETWORKS FOR RESEARCH AND EDUCATION: SHARING COMPUTER AND INFORMATION RESOURCES NATIONNIOE, MIT PRESS. CAMBRIDGE, MA. 1973, P. 282-287

THE AUTHOR DESCRIBES THE NEW ENGLAND REGIONAL COMPUTER PROJECT NETWORK, NERCOMP, ADDRESSING BOTH ITS DEVELOPMENT AND ITS CURRENT STATUS. HE STATES THAT THE PROBLEMS ENCOUNTERED IN A REGIONAL NETWORK ARE A SUBSET OF THOSE TO BE EXPECTED AT THE NATIONAL LEVEL, ALSO, THAT EXPANDED REGIONAL NETWORKS LIKE NERCOMP MAY BE THE PRACTICAL WAY OF PROVIDING AN EVENTUAL MATIONAL, INTERCOMPUTER, INTERINSTITUTIONAL NETWORK.

RSEN, A., E. MCWILLIAMS, S. SALTZMAN, THE FINGER LAKES REGIONAL COMPUTING DRGANIZATION: CREATING A REGIONAL, Academic computing network. Icornell Univ., Ithaca, ny, massachusetts inst. of tech., cambridge., A first report of an exploratory program of regional cooperative computing activities, jan exploratory program of regional cooperative computing activities, jan to, nsp ccr-70-12, p 29-42, LARSEN. A... S REES

THIS REPORT ON THE OPERATION OF THE FINGER LAKES REGIONAL COMPUTING DRGANIZATION (BASED ON A CENTRAL COMPUTER AT CCRNELL UNIVERSITY) STRESSES THE NEED TO ALLOW AMPLE TIME FOR THE SYSTEM AND ITS USERS TO ACHIEVE A RELATIVELY STEADY-STATE CONDITION. A NUMBER OF CONCLUSIONS AND OBSERVATIONS REGARDING THE SETUP AND OPERATION OF SUCH A REGIONAL NETYORK ARE FRESENTED.

MCCARN, DAVIS B., A MEDICAL INFORMATION NETWORK AND CONSTRAINTS ON NETWORKING, (NATIONAL LIBRARY OF MEDICINE. WASHINGTON, DC). RECHIERGER, MARTIN, JULIUS ARONDFSKY, JAMES L. MCKENNEY, WILLIAM F. MASSY, NETWORKS FOR RESEARCH AND EDUCATION: SHARING COMPUTER AND INFORMATION RESOURCES NATIONWIDE. MIT PRESS, CAMBRIDGE. MA, 1973, P. 338-344, 2. REFS

THE DEVELOPMENT AND OPERATION OF THE MEDICAL LITERATURE ANALYSIS AND RETRIEVAL SYSTEM, MEDLARS, THE ON-LINE MEDICAL INFORMATION METWORK OF THE NATIONAL LIERARY OF MEDICINE, ARE DESCRIBED, BASED ON HIS EXPERIENCE IN THE DEVELOPMENT OF MEDLARS, THE AUTHOR DISCUSSES CHARACTERISTICS OF COMPUTING IN HIGHER EDUCATION THAT MIGHT MAKE THE PROBLEMS OF NETWORKING DIFFICULT. (ALSO UNDER 4+2+1)

CQUILLAN, JCHN M., WILLIAM R, CROWTHER, BERNARD P. COSELL, DAVID C. WALDEN, FRANK E. HEART, IMPROVEMENTS IN THE DESIGN AND PERFORMANCE OF THE ARPA NETWORK, (PREPARED FOR, AFIES, FALL JOINT COMPUTER CONFERENCE, 1972), BOLT, BERANEK AND NEWMAN INC., CAMBENGE, MA, 1972, ARPA DAHC-15-69-C-0172, 36P, 13 REFS

SOME ARPANET IMPLEMENTATION PROBLEMS AND ACCOMPANYING SOLUTIONS ARE DESCRIBED. DISCUSSIONS ON THE REASSEMBLY LOCKOUT PROBLEM, THE ELIMINATION OF THE LINK MECHANISM, SCME REFINEMENT IN THE ACKNOWLEDGEMENT SYSTEM TO INCREASE THE EFFECTIVE TRANSMISSION RATE, THE DEVELOPMENT OF A VERY DISTANT HOST INTERFACE, IMPROVED BUFFER MANAGEMENT FOR LINES WITH A WIDE RANGE OF SPECOS, AND BETTER NETWORK DIAGNOSTICS ARE INCLUDED. THE HYDRHETICAL PERFORMANCE OF THE NETWORK IS THEN RE-EVALUATED TO SHOW THE POTENTIAL IMPROVEMENTS BROUGHT ABOUT BY THE CMANGES,

MMO, N. W., BERNARD P. COSELL, DAVID C. WALDEN, S. C. BUTTERFIELD, J. B. LEVIN, TERMINAL ACCESS TO THE ARPA NETWORK: EXPERIENCE AND IMPROVEMENTS. (BOLT, BERANEK AND NEWMAN INC., CAMBRIDGE. MA), COMPCON 73 - SEVENTH ANNUAL IEEE COMPUTER SOCIETY INTERNATIONAL CONFERENCE. DIGEST OF PAPERS. *COMPUTING NETWORKS FROM MINIS THROUGH MAXIE - ARE THEY FOR REL.?'. ISAN FRANCISCO. CA, FEBRUARY 27-28, MARCH 1, 1973). INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS INC., NEW YORK, 1973, ILC 68-1628), P 39-43, 11 REFS MIMNO. N. W ..

THIS ARTICLE PRESENTS AN ACCOUNT OF THE DEVELOPMENT OF A DIRECT TERMINAL ACCESS CAPABILITY ON THE ARPA NETWORK. THIS DEVELOPMENT IS VIEWED AS A CONTINUAL TRADEOFF DETWEEN USER DEMANDS AND SYSTEM CAPABILITY AND MANAGEABILITY. THE SYSTEM WAS DRIGINALLY DESIGNED ACCORDING TO A BASIC PHILDSOPHY OF SUPPORTING MANY DIFFERENT TYPES OF SIMPLE TERMINALS. THIS PHILDSOPHY HAS BEEN MODIFIED BY THE NEEDS OF MORE SOPHISTICATED USERS AND TERMINALS, BUT IS BELIEVED TO STILL BE ESSENTIALLY VALID.

ELSEN, NORMAN R,, THE MERIT OF REGIONAL COMPUTING NETWORKS, (STANFORD UNIV., CA), COMMUNICATIONS OF THE ACM, VOL 14, ISSUE S, MAY 71, P 319-326, 3 REFS (ANNOTATION UNDER 1.1)

NIELSEN, NORMAN R.. THE STANFORD REGIONAL COMPUTING NETWORK, ISTANFORD UNIV., CA),

3.1.2 EVALUATION

A FIRST REPORT OF AN EXPLORATORY PROGRAM OF REGIONAL COOPERATIVE COMPUTING ACTIVITIES, JAN 70, N5F CCR-70-12, P 137-148.

THE STANFORD UNIVERSITY PILOT REGIONAL EDUCATIONAL COMFUTING NETWORK CONSISTS OF A CENTRAL TIME-SHARING SYSTEM AT STANFORD SERVING TERMINALS AT FIVE INSTITUTIONS IN THE SAN FRANCISCO AREA. THIS ARTICLE OWELLS ON THE LESSONS LEARNED IN THE DEVELOPMENT OF THIS REGIONAL ACADEMIC NETWORK. THE NEED FOR FACULTY INVOLVEMENT, THE NEED FOR GOOD OCCUMENTATION, THE PROBLEMS OF PRICING, AND OTHER TOPICS ARE BRIEFLY COVERED. LALSO UNDER 5.1

CWENS, JERRY L., A USER'S VIEW OF THE LAWRENCE LIVERMORE LABORATORY'S COMPUTER NETWORKS, (LAWRENCE LIVERMORE LAB., LIVERVCRE, CA), COMPCON 73 - SEVENTH ANNUAL IEEE COMPUTER SOCIETY INTERNATIONAL CONFERENCE, DIGEST OF PAPERS, *COMPUTING NETWORKS FROM MINIS THROUGH MAXIS -- ARE THEY FOR REAL?', (SAN FRANCISCO, CA, FEBRUARY 27-28, MARCH 1, 1973), INSTITUTE OF ELECTHICAL AND ELECTRONIC ENGINEERS INC., NEW YORK, 1973, (LC 69-1628), P 75-78°, 4 REFS

A DESCRIPTION OF THE OCTOPUS NETWORK IS PRESENTED FROM A USER'S STANDPOINT, THE SUB-NETWORKS THAT MAKE UP THE OCTOPUS NETWORK ARE BRIEFLY DESCRIBED. PROBLEMS AND COMPLAINTS OF THE USERS ARE GIVEN INCLUDING COMPLAINTS OF LOW RELIABILITY, LACK OF CAPACITY POOR DESIGN AND CHANNING HARDWARE AND SOFTWARE, THE AUTHOR DISCUSSES THESE PROBLEM AREAS CANDIDLY AND ADDRESSES ALSO THE INTERACTION OF THESE PROBLEMS ON ONE ANOTHER. HOWEVER HIS BIAS IS QUITE EVIDENT WHEN HE CONTENTS THAT THESE CRITICISMS ARE 'PREALLY VERY MINOR WHEN THE MACHITUDE AND COMPLEXITY OF THE LLL NETWORK IS TAKEN INTO CONSIDERATION,' AND THAT THE LLL NETWORK IS THE 'BEST AND MOST USEFUL COMPUTER NETWORK IN THE WORLD.' (ALSO UNDER 2.3. 5.7)

D'SLLLIVAN, THOMAS C., EXPLOITING THE TIME-SHARING ENVIRONMENT, (RAYTHEON CO., SUOBURY, MA), PROCEEDINGS OF 22ND NATIONAL CONFERENCE, ASSOCIATION FOR COMPUTING MACHINERY, THOMPSON BOOK CO., WASHINGTON, OC, 1967, ACM CCMPERENCE PROCEEDINGS A.C.M. P-67, (LC 64-25615), P 169-175, 3 REFS

THE EXPERIENCES OF THE RAYTHEON SPACE AND INFORMATION OIVISION IN USING A NUMBER OF COMMERCIAL TIME-SHARING SYSTEMS ARE DISCUSSED. THE SYSTEMS ARE BRIEFLY COMPARATIVELY ANALYZED. AN UNSOPHISTICATED PBX TERMINAL METWORK IS DESCRIBED WHICH ALLOWS ANY OF THE TERMINALS TO CONNECT TO ANY OF THE AVAILABLE SYSTEMS. ALSO INCLUDED IS THE DESCRIPTION OF A DESIGN OF A REMOTE TERMINAL INTERFACE COMPUTER WHICH CAN ALLOW A *STANDARD' TERMINAL TO CONNECT TO ANY ACCESSIBLE COMPUTER SYSTEM.

EDUZIN, JOUIS, THE CYCLADES NETWORK - PRESENT STATE AND DEVELOPMENT TRENDS, (INSTITUT DE RECHERCHE D'INFORMATIQUE ET DOLIN: LOUIS, THE CICLADES RETRORK - PRESENTS THE AND DEPECTRENT RELATIONS. (GAITHERSBURG, ND, JUN D'AUTOMATIQUE, (FRANCE)). PROCEDOINGS OF THE 1975 SYMPOSIUM-COMPUTER NETWORKS: TRENGS AND APPLICATIONS. (GAITHERSBURG, ND, JUN INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YORK, 1975, 75CH0973-BC, P B-13, IT REFS JUNE 18, 1975)

THIS PAPER BRIEFLY REVIEWS THE MAJOR DEVELOPMENTAL STAGES OF THE CYCLADES NETWORK, IN ADDITION IT IND IN THE INITIAL PLANS WHICH HAVE BEEN AND ARE TAKING PLACE, CURRENT DEVELOPMENTS AND A LOOK TO THE FUTURE. IN ADDITION IT INDICATES CHANGES

- ROBERTS, LAWRENCE G., NETWORK RATIONALE: A FIVE-YEAR REEVALUATION, (DEPARTMENT OF DEFENSE, ARLINGTON, VA, ADVANCED RESEARCH PROJECTS AGENCY). CCMPCCN 73 SEVENTH ANNUAL IEEE COMPUTER SOCIETY INTERNATIONAL CONFERENCE, DIGEST OF PAPERS, 'COMPUTING NETWORKS FROM MINIS THROUGH MAXIS -- ARE THEY FOR REAL?', (SAN FRANCISCO, CA, FEBRUARY 27-28, MARCH 1, 1973), INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS INC., NEW YORK, 1973, (LC 68-1628), P 3-5 (ANNDTATION UNDER 5.3)
- SCHELONKA, EDWARD P., RESOURCE SHARING WITH ARPANET, (LOS ALAMOS SCIENTIFIC LAB,, NM), IEEE 1974 NATIONAL TELECOMMUNICATIONS CONFERENCE, (SAN DIEGO, CA, DECEMBER 2-4, 1974), INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YORK, 1974, IEEE P-74CH0902-7-CSCB, (LC S7-20724), P 1045-1048, 2 REFS (ANOTATION UNDER S.I)
- YATT, JOE B., THE HARVARD PLAN. (HARVARD UNIV., CAMBRIDGE, MA), GREENGERGER, MARTIN. JULIUS ARDNOFSKY, JAMES L. MCKENNEY, WILLIAM F. MASSY, NETWORKS FOR RESEARCH AND EDUCATION: SHARING COMPUTER AND INFORMATION RESOURCES NATIONWIDE, MIT PRESS, CAMBRIDGE, MA, 1973, P 311-319, 2 REFS (ANNOTATION UNDER 5.1)

3.2.0 GENERAL

AN INTRODUCTION TO THE USE OF DATA COMMUNICATIONS IN THE UNITED KINGDOM, PLIENER ASSOCIATES LTD., LEEDS, (ENGLAND), 1972. 391

THIS DOCUMENT ADDRESSES TELECOMMUNICATIONS AT THE INTRODUCTORY LEVEL. PRACTICAL INFORMATION IS PRESENTED AND TERMINDLOCY DISCUSSED AT THE NOVICE LEVEL IN COMMUNICATIONS. TARIFF SUMMARIES AND TECHNIQUES DESCRIBED ARE RELATED TO ACTIVITIES IN THE UNITED KINGDOM.

ATKINSON, D. M., U. C. STRAHLENDORF, THE PROBABLE FUTURE OF CANADIAN LONG HAUL DIGITAL DATA NETWORK CONNECTIONS WITH THE U.S.A., (BELL CANADA). THE U.S.A., (BELL CANADA). JACKSDN, PETER E., PROCEEDINGS. ACM/IEEE SECOND SYMPOSIUM ON PROBLEMS IN THE OPTIMIZATION OF DATA COMMUNICATION SYSTEMS, (FALO ALTC, CA, OCTOBER 20-22, 1971), 1971, IEEE CAT-71C59-C, P 10-15 (ANNOTATICN UNDER 3.1.1)

EEERE, MAX F., COMMERCIAL DATA NETWORKS USING AVAILABLE COMMON CARRIER FACILITIES, (TYNSHARE INC.). GREENBERGER, MARTIN, JULIUS ARDNOFSKY, JAMES L. MCKENNEY, WILLIAM F. MASSY, NETWORKS FOR RESEARCH AND EDUCATION: SHARING COMPUTER AND INFORMATICN RESOURCES NATIONNIDE, MIT PRESS, CAMBRIDGE, MA, 1973, P 55-63, I REFS

ALTERNATIVES FOR DEVELOPING NETWORKS THAT LINK TERMINALS TO COMPUTERS RATHER THAN COMPUTERS TO COMPUTERS ARE DISCUSSED. THE AUTHOR POINTS OUT THE ADVANTAGES AND DISACUANTAGES OF USING EXISTING COMMON CARRIER FACILITIES. H ALSO ENUMERATES SEVERAL DIFFERENT TYPES OF COMPUTER ORIENTED NETWORKS IN ORDER OF INCREASING POTENTIAL IMPORTANCE. THE CCNCEPT OF "VALUE-ADDED NETWORK SERVICE" (VANS) IS DISCUSSED. HE

UTLER, R. E., INTERNATIONAL COOPERATION AND REGULATION FOUNDATIONS FOR DEVELOPMENT, (INTERNATIONAL TELECOMMUNICATIONS UNION, GENEVA, (SWITZERLAND)). THE SECOND INTERNATIONAL COMFERENCE ON COMPUTER COMMUNICATION, COMPUTER COMMUNICATION TODAY AND UP TO 1985, (STOCKHOLM, (SWEDEN), AUGUST 12-14, 1974). INTERNATIONAL COUNCIL OF ICCC, 1974, P 11-17 (ANNOTATION UNDER 1.5)

CAVIES, OGNALD W++, DEREK L+ A+, BARBER+, COMMUNICATION NETWORKS FOR COMPUTERS+ NATIONAL PHYSICAL LAB+, TEDDINGTON, (England), Wiley (John) AND SONS+ NEW YORK+, 1973, WILEY SERIES IN COMPUTING, (LC 73-2775), S75P+ 99 REFS

THIS HIGHLY READABLE BOOK PROVIDES AN EXCELLENT INTRODUCTION TO THE SUBJECT OF COMPUTER-COMMUNICATION NETWORKS, N ONLY ARE SUCH NETWORKS DESCRIBED AS THEY EXIST TODAY, BUT, IN ADDITION, THERE ARE CHAPTERS DEALING WITH PRINCIPLES OF COMPUTER NETWORKS, BASISS OF DATA TRANSMISSION, STORAGE, MULTIPLEXING, AND MESSAGE AND DATA SWITCHING. THE FINAL PAR THE BOCK IS CONCERNED WITH THE NEW POSSIBILITIES FOR COMMUNICATION NETWORKS WHICH HAVE ARISEN BECAUSE STORAGE AND PROCESSORS ARE CHEAPER AND DATA TRANSMISSION IS FASTER. NOT THE FINAL PART OF

IAMOND, F., R. JOHNSON, D. MCAULIFFE, SOME RECENT APPLICATIONS OF AUTOMATIC DATA PROCESSING TO TELECOMMUNICATIONS, (ROME AIR DEVELOPMENT CENTER, GRIFFISS AFB, NY), IEEE 1974 NATIONAL TELECOMMUNICATIONS CONFERENCE, (SAN DIEGO, CA, DECEMBER 2-4, 1974), INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YORK, 1974, IEEE P-74CH0902-7-CSCB, (LC 57-20724), P 482-490, 13 REFS DIAMOND. E.

FEW ARTICLES THESE DAYS ACTUALLY EXPLAIN WHAT COMPUTERS DO IN BOTH CIRCUIT SWITCHING AND MESSAGE SWITCHING APPLICATIONS. THIS ARTICLE IS AN EXCEPTION, FOR IT DOES EXPLAIN IN A TUTORIAL FASHION THE VARIOUS FUNCTIONS PERFORMED IN EACH CASE. AFTER COMPARING CIRCUIT SWITCHING WITH A TYPICAL MESSAGE SWITCHING, SYSTEM (AUTODIN), PACKET SWITCHING IS INTRODUCED (IN THE FORM OF ARPANET) AND COMPARED TO MESSAGE SWITCHING, THE ARTICLE ENDS WITH A DESCRIPTION OF AN "ASSOCIATIVE COMMUNICATIONS MULTIPLEXER" ON WHICH THE AUTHORS HAVE APPARENTLY BEEN WORKING AND WHICH IS CLAIMED TO BE APPLICABLE FOR A VARIETY OF SWITCHING FUNCTIONS, UNFORTUNATELY, THE USE OF ASSOCIATIVE PROCESSING TECHNIQUES IN COMMUNICATIONS IS NOT WELL EXPLAINED.

ALSO UNDER 1.3. 3.1.2)

DCLL. DIXON R., DR,, TÉLECOMMUNICATIONS TURBULENCE AND THE COMPUTER NETWORK EVOLUTION, (DMW TELECOMMUNICATIONS CORP., ANN ARBOR, MI), CCMPUTER, VOL 7, ISSUE 2, FEB 74, P I3=22, 53 REFS (ANNOTATION UNDER I.3)

3.2.0 GENERAL

FARBER, DAVID J., KENNETH C. LARSDN, THE SYSTEM ARCHITECTURE OF THE DISTRIBUTED COMPUTER SYSTEM--THE COMMUNICATIONS SYSTEM, (PRESENTED AT, SYMPOSIUM ON COMPUTER NETWORKS, APRIL 1972), CALIFORNIA, UNIV. OF, IRVINE, 1972, NSF GJ-IO 1659, 9 REFS

THIS IS A GENERAL DESCRIPTION OF THE COMMUNICATIONS SYSTEM FOR A RING STRUCTURE EXPERIMENTAL COMPUTER NETWORK. IT INTRODUCES A MECHANISM FOR AN ASSOCIATIVE STORE AT THE NETWORK INTERFACE FOR EACH PROCESSOR THAT CONTAINS THE "NAMES" OF ALL PROCESSES PRESENTLY RESIDING WITHIN THE ATTACHED PROCESSOR TO FACILITATE INTER-PROCESS MESSAGE ADORESSING.

- GABLER, HERMANN G., THE GERMAN EDS NETWORK, (DEUTSCHE BUNDESPOST, DARMSTADT, (WEST GERMANY), FERNMELDETECHNISCHES
- ZENTRALANT), JACKSCN. PETER E., PROCEEDINGS. ACM/IEEE SECOND SYMPOSIUM DN PROBLEMS IN THE OPTIMIZATION OF OATA COMMUNICATION SYSTEMS, (PALO ALTO, CA. OCTOBER 20-22, 1971), 1971, IEEE CAT-71CS9-C, P B0-BS, B REFS (ANNOTATION UNDER 3.1,0)
- RUBB, DANA S., IRA W. CCTTDN. CRITERIA FOR THE PERFORMANCE EVALUATION OF DATA COMMUNICATIONS SERVICES FOR COMPUTER NETWORKS, NATIONAL BUREAU OF STANDAROS, WASHINGTDN, OC, COMPUTER SYSTEMS ENGINEERING DIV., SEP 75, NBS TN-BB2, 36P, 37 GRUBB. DANA S. (ANNOTATION UNDER 2.2)
- FINKELMAN, ROBERT M., PLANNING A DATA COMMUNICATIONS SYSTEM, PART 2: COMMON CARRIER FACILITIES (CONTINUED), (American Telephone and Telegraph Co., Camben, NJ), Modern Cata, Vol 3, ISSUE 6, Jun 70, P 62-60, 66
- THIS IS A CONTINUATION OF THE ARTICLE BY HINKELMAN, 'PLANNING A DATA COMMUNICATIONS SYSTEM, PART 2-COMMON CARRIER FACTUITIES.'
- HINKELMAN, ROBERT M., PLANNING A DATA COMMUNICATIONS SYSTEM. PART 2: COMMON CARRIER FACILITIES, (AMERICAN TELEPHONE AND TELEGRAPH CO., CAMOEN, NJ). MODERN DATA, VOL 3, ISSUE S, MAY 70, P 76-80

HE USE OF THE PUBLIC SWITCHED NETWORK TO CONNECT TELETYPEWRITER TERMINALS TO REMOTELY ACCESSIBLE COMPUTERS IS DUTL INED .

- MARILL, TFOMAS, A COOPERATIVE NETWORK OF TIME-SHARING COMPUTERS: PRELIMINARY STUDY, COMPUTER CORP. OF AMERICA. CAMBRIDGE, MA, I JUN 66. CCA TR-II. S2P. 6 REFS (ANNOTATION UNDER 3.0)
- RTIN, J., TELECOMMUNICATIONS AND THE COMPUTER, INTERNATIONAL BUSINESS MACHINES CORP., NEW YORK, SYSTEMS RESEARCH H INST., PRENTICE-HALL INC., ENGLEWOOD CLIFFS, NJ, 1969, PRENTICE-HALL SERIES IN AUTOMATIC COMPUTATION. (LC 78-7603B), 4709, 47 REFS (ANNDTATION UNDER 1.3)
- NUM, THOMAS, GARY G. MOSS. JOHN J. RITENOUR, JR., TECHNICAL TELECOMMUNICATION FORCES, (OEPARTMENT OF THE AIR FOR AIR FORCE COMMUNICATIONS SERVICE), IEEE 1974 NATIONAL TELECOMMUNICATIONS CONFERENCE, (SAN DIEGO, CA, OECEMBER 2-4, 1974), INSTITUTE OF ELECTRICAL ANO ELECTRONICS ENGINEERS INC., NEW YORK, 1974, IEEE P-74CHD902-7-CSCB, (LC S7-20724), P 461-467, 29 REFS (ANNOTATION UNDER 1.66) JOHN J. RITENOUR, JR., TECHNICAL TELECOMMUNICATION FORCES, (DEPARTMENT OF THE AIR FORCE. YIUM, THOMAS,

3.2.1 TRANSMISSION FACILITIES

- ABRAMSON, NORMAN, PACKET SWITCHING WITH SATELLITES, HAWAII, UNIV. OF, HONOLULU, ALOHA SYSTEM, MAR 73, HU B73-2. NASA NAS2-6700, AF F44620-65-C-0030, ONR N00014-70-C-0414, 24P, 20 REFS
 - THIS PAPER PROVIDES A THEORETICAL FRAMEWORK FROM WHICH THE CAPACITY, DELAY AND AVERAGE POWER OF THE NEW FORMS OF COMPUTER-COMMUNICATION NETWORKS CAN BE DERIVED. ALSO DESCRIBED ARE WAYS IN WHICH THESE FORMS OF COMMUNICATION MIGHT BE EMPLOYED IN SOME OF THE PLANNED U.S. DOMESTIC SATELLITE SYSTEMS TO PROVIDE A PUBLIC, PACKET SWITCHED SERVICE. A SHORT HISTORY DF COMPUTER-COMMUNICATIONS NETWORKS UP TO 1973 IS INCLUED, AS WELL AS A DESCRIPTION OF THE CHARACTERISTICS OF THE ALDHA BURST RANDOM ACCESS COMMUNICATION METHOD. THIS PAPER WAS CONFORTER-CHANICALE PRESENTED IN A SESSION OF THE 1973 NATIONAL COMPUTER CONFERENCE AND EXPOSITION OEVOTED TO EXAMINING TECHNIQUES FOR USING A SATELLITE IN A MULTI-ACCESS BROADCAST MODE BY TRANSMITTING ADDRESSED DATA PACKETS FROM MANY GROUND SATIONS, OYNAMICALLY SMARING THE CAPACITY OF A SINGLE WIDEBAND SATELLITE CHANNEL. (ALSO UNDER 3,22,2, 3,22.3)
- ABRAMSDN, NDRMAN, THE ALDHA SYSTEM--ANDTHER ALTERNATIVE FOR COMPUTER COMMUNICATIONS, (HAWAII, UNIV, DF, HONOLULU), AFJPS PROCEEDINGS, 1970 FALL JOINT COMPUTER CONFERENCE, VOLUME 37, (HOUSTON, TX, NDVEMBER 17-19, 1970), AFIPS PRE MONTVALE, NJ, 1970, AFIPS CONFERENCE PROCEEDINGS, (LC SS-44701), P 281-285, 13 REFS (ANNDTATION UNDER 3:1.0) PRESS.
- ABRAMSDN, NDRMAN, THE ALDHA SYSTEM, HAWAII, UNIV. OF, HDNDLULU, JAN 72, UH TR-872-I, NASA NAS2-6700, AF F44620-69-C-003D, 30P, 16 REFS

A RADID FREQUENCY COMMUNICATIONS SYSTEM IS DESCRIBED USING AN UNCONVENTIONAL MULTIPLEXING TECHNIQUE. RANDOM ACCESS MULTIPLEXING IS ALLOWED AND RETRANSMISSION WITH TIME DELAYS IS USED TO RESOLVE PROBLEMS OF INTERFERENCE. A MATHEMATICAL ARGUMENT IS PRESENTED ATTEMPTING TO DEFINE PRACTICAL CHANNEL UTILIZATION (LOW PROBABILITY OF INTERFERENCE) USING THE RANDOM MULTIPLEXING TECHNIQUE, BUT THE ARGUMENT IS DEVELOPED FOR A VERY SPECIFIC TYPE OF DATA TRANSFER -- BO DR 40 CHARACTERS AT A TIME. THE SYSTEM DESENVES ATTENTION BECAUSE IT IS A DEFINITE ATTEMPT TO GEAR THE COMMUNICATIONS SYSTEM TO THE CHARACTERISTICS OF THE USER (BURST USAGE IS THE ASSUMPTION) AND MORE FULLY UTILIZE CHANNEL CAPACITY, (ALSO UNDOR 3.1.1)

NOREAE, SYPKO W., ROBERT W. LAFDRE, JR., AN ERROR-CORRECTING DATA LINK BETWEEN SMALL AND LARGE COMPUTERS. (CALIFORNIA, UNIV. OF, BERKELEY, LAWRENCE RADIATION LAB.). AFIPS PROCEDINGS. 1968 SPRING JOINT COMPUTER CONFERENCE. VOLUME 32, (ATLANTIC CITY, NJ. APRIL 3D-MAY 2, 1968), THOMPSON BODK CO., WASHINGTON, DC, 1968, AFIPS CONFERENCE PROCEEDINGS, (LC SS-44701), P 105-110 ANDREAE, SYPKO W...

A UNIQUE SOLUTION TO A CRUCIAL DESIGN PROBLEM IN CREATING HIERARCHICAL COMPUTER NETWORKS UTILIZING SMALL COMPUTERS IN LABORATORY OR DTHER SETTINGS IS PRESENTED, THIS SCHEME USES MULTIPLE PARALLEL TWISTED PAIRS AND FOLL ECHDING FOR ERROR OBTECTION. SPECIAL ATTENTION IS GIVEN TO MINIMIZING THE HARDWARE AND SOFTMARE REQUIRED FOR ERROR CHECKING. IN DIVERTING FROM MORE CONVENTIONAL COMMUNICATIONS FACILITIES THE PAPER SHOWS LITTLE APPRECIATION FOR THE 'UNDETECTED ERROR. OBTECHT IN EVALUATING COMMUNICATION LINK DERFORMANCE. EFROR

NSLOW, N. G., J. HANSCDTT, IMPLEMENTATION D≓ INTERNATIONAL DATA EXCHANGE NETWORKS, (BOAC, LONDON AIRPORT, (ENGLANO)), WINKLER, STANLEY, COMPUTER COMMUNICATIONS: IMPACTS AND IMPLEMENTATION. THE FIRST INTERNATIONAL CONFERENCE DN COMPUTER COMMUNICATION, (WASHINGTON, DC, OCTOBER 24-26, 1972), IMTERNATIDNAL COMFERENCES ON COMPUTER COMMUNICATION, 1972, ICCC 72-CHC-690-8C, NSF GJ-33239, P IBI-I84 ANSLOW, N. G. WINKLER, ST.

SDME OF THE PROBLEMS INVOLVED WITH CONSTRUCTING A DATA TRANSMISSION NETWORK FOR USE ON AN INTERNATIONAL AND INTERCONTINENTAL BASIS ARE REVIEWED. THE PAPER DISCUSSES THE TECHNICAL DIFFICULTIES OF GETTING STANDARD VDICE GRADE TELEPHONE CHANNELS SUITABLY CONDITIONED FOR THE TRANSMISSION OF DATA AT MEDIUM/HIGH SPEEDS. PARTICULARLY IN THE ADSENCE OF AGREED UPON INTERNATIONAL STANDARDS FOR SOME PARAMETERS WHICH ARE ESSENTIAL TO ACHIEVING A SATISFACTORY BIT ERROR RATE. THE PAPER ALSO DISCUSSES THE ADMINISTRATIVE AND CONTROL PROBLEMS OF OPERATING A DATA NETWORK TOGETHER WITH THE PRACTICAL DIFFICULIES OF ACHIEVING AND MAINTAINING ITS PERFORMANCE TO A CONSISTENTLY HIGH STANDARD. THE INTER-RELATIONSHIP BETWEEN MEDIUM/HIGH SPEED DATA TRANSMISSION FACILITIES AND THE CONVENTIONAL LOW SPEED TELEGRAPH NETWORK IS NOTED AND SOME THOUGHTS ARE DEFERED FOR FUTURE DEVELOPMENTS. (ALSO UNDER S.1)

BRDD, ERNEST, INTERNATIONAL DIGITAL DATA SERVICE. (WESTERN UNION INTERNATIONAL INC., NEW YORK), THE SECOND INTERNATIONAL CONFERENCE ON COMPUTER COMMUNICATION. CONPUTER COMMUNICATION TODAY AND UP TO 1985, (STOCKHOLM, (SWEDEN), AUGUST 12-14, 1974), INTERNATIONAL COUNCIL OF ICCC, 1974, P. 509-596, 6 REFS

WESTERN UNION'S INTERNATIONAL DIGITAL DATA SERVICE (IDDS) IS DESCRIBED: DESIGN, PERFORMANCE AND MARKETING CONSIDERATIONS, IDDS FEATURES INCLUDE UP TO 9600 BPS TRANSMISSION RATE AND HIGH RELIABILITY BY PROVIDING DUAL TRANSMISSION PATHS ROUTED VIA BOTH CABLE AND SATELITE LINKS WITH AUTOMATIC SWITCHING IN THE EVENT OF A FAILURE.

BIBLIDGRAPHY

3.2.1 TRANSMISSION FACILITIES

CHOU, W., M. GERLA, H. FRANK, COMMUNICATION NETWORK COST REDUCTION USING DOMESTIC SATELLITES. (NETWORK ANALYSIS CORP.. GLEN COVE, NYI. PROCEEDINGS OF THE 1974 SYMPOSIUM, COMMUTER NETWORKS: TRENDS AND APPLICATIONS, (GAITHERSBURG, ND, MAY 23, 1974). H. FRANK, COMMUNICATION NETWORK COST REDUCTION USING DOMESTIC SATELLITES. (NETWORK ANALYSIS INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YORK, 1974, 74CH0835-9C, P 9-14, 17 REFS

THIS PAPER DISCUSSES THE OPTIMIZATION OF NETWORKS CONTAINING BOTH TERRESTRIAL AND SATELLITE LINKS. SEVERAL LINE COST MCDLLS ARE DESCRIBED. THESE INCLUDE; DISTANCE DEPENDENT STRUCTURES; LOCATION DEPENDENT STRUCTURES; VOLUME DISCOUNT TWORKS STRUCTURES; AND HIERARCHICAL STRUCTURES. IN ADDITION A PROCEDURE FOR DETHIZING DOMESTIC SATELLITE COMMUNICATIONS METORRS FOR COMPUTER COMMUNICATIONS IS PRESENTED IN SOME DETAIL. A NUMBER OF REFERENCES DEALING WITH TERMINAL PARTITIONING AND CLUSTERING PROBLEMS ARE INCLUDED. (ALSO UNDER S+31

CHU, WESLEY W., A STUDY OF ASYNCHRONOUS TIME OIVISION MULTIRLEXING FOR TIME-SHARING COMPUTER SYSTEMS, (CALIFORNIA, UNIV, OF, LOS ANGELES, DEPT. OF COMPUTER SCIENCEI, AFIPS PROCEEDINGS, 1569 FALL JOINT COMPUTER CONFERENCE, VCLUME 3S, (LAS VEGAS, NV, NOVEMBER 18-20, 1969), AFIPS RRESS, MONTVALE, NJ, 1969, AFIPS CONFERENCE PROCEEDINGS, (LC SS-447D1), P 669-678, 17 REFS

THIS IMPORTANT CONTRIBUTION TO THE LITERATURE ON COMPUTER-TO-TEPMINAL COMMUNICATIONS IS CONCERNED WITH ASYNCHRONOUS

THE DIVISION MULTIPEXING TO BEFFICIENTLY USE A TRANSMISSION CIRCUIT ON A DIMONICATIONS IS COMMENDED WITH ASTACHMONDOS THE DIVISION MULTIPEXING TO EFFICIENTLY USE A TRANSMISSION CIRCUIT ON A DIMONICATIONS IS COMMENDED WITH ASTACHMONDOS REDUIRES AN ADDRESS, AND BUFFERING IS REDUIRED TO HANDLE RANDOM RESSAGE ARRIVALS. BOTH AT THE COMPUTER AND USER ENDS OF THE CIRCUIT. SINCE THE FEASIBILITY OF ASTACHRONDONS MULTIPLEXING OPENEDS ON AN ACCERTABLY LOW BUFFER OVERFLOW PROBABILITY AND EXPECTED MESSAGE DUEUING DELAY OUE TO BUFFERING, AN ANALYSIS OF THE STATISTICAL BEHAVIOR OF THE BUFFER IS PRESENTED. THIS IS DONE BOTH FOR THE USER-TO-COMPUTER BUFFER. AND FOR THE COMPUTER-TO-USER BUFFER.

COX, KENNETH A., THE PROMISE AND PERIL OF COMMETITION IN INTERCITY COMMUNICATIONS, (MCI COMMUNICATIONS CORR,

WAY RENNETH ANY INF FRONTOCINE COMMUNICATIONS: IMPACTS AND IMPLEMENTATION, THE FIRST INTERNATIONAL CONFERENCE ON COMPUTER WINKLER, STANLEY, COMPUTER COMMUNICATIONS: IMPACTS AND IMPLEMENTATIONAL CONFERENCES ON COMPUTER COMMUNICATION, 1972, ICCC COMMUNICATION, (WASHINGTON, OC, OCTOBER 24-26, 1972], INTERNATIONAL CONFERENCES ON COMPUTER COMMUNICATION, 1972, ICCC 72-CHC-690-BC, NSF GJ-33239, P 434-440, 8 REFS (ANNOTATION UNDER 5.41

CROWTHER, W. R., F. E. HEART, A. A. MCKENZIE, J. M. MCQUILLAN, O. C. WALDEN, ISSUES IN PACKET-SWITCHING NETWORK DESIGN, BOLT, BERANEK AND NEWMAN INC., CAMBRIDGE, MA, OEC 74, ARRA DAHC-I5-69-C-0179, AF F08606-73-C-0027, 73R, 33 REFS

THIS IS AN EXCELLENT ARTICLE WHICH DESCRIBES A TECHNOLOGY WHICH REVOLUTIONIZED COMPUTER-COMMUNICATIONS

THIS IS AN EXCELLENT APTICLE WHICH DESCRIBES A TECHNOLOGY WHICH REVOLUTIONIZED COMPUTER-COMMUNICATIONS TECHNOLOGY -- PACKET-SWITCHING, WHILE THE AUTHORS HAVE THEIR ROOTS IN THE APPANET. THEY ALSO REPRESENT THE VIEWPOINTS OF OTHER IMPLEMENTED OR PLANNED PACKET-SWITCHING NETWORK DESIGNERS. THE TWO FUNDAMENTAL GOALS OF DATA PROCESSING IN PACKET-SWITCHING SYSTEMS ARE DEFINED TO BE LOW DELAY AND HIGH THROUGHPUT, TO ACHIEVE THESE GOALS THERE ARE A VARIETY OF DESIGN CHOICES TO BE MADE, RANGING FROM NETWORK HAROWARE (HOSTS, CIRCUITS, HOST-TO-NODE CONNECTIONS, DVERALL CONNECTIVITY) TO STORE-AND-FORWARD SUBNETWORK SOFTWARE (ROUTING, NODE-TO-NODE TRANSMISSION PROCEDURES). THE SOURCE-TO-DESTINATION SOFTWARE DESIGN IS ALSO DISCUSSED. THIS ARTICLE IS RECOMMENDED READING FOR THOSE INTERESTED IN GETTING ACQUAINTED WITH PACKET-SWITCHING AT MORE THAN A CURSORY LEVEL.

TRANSMISSION NETWORK COMFUTER-TO-COMPUTER STUDY, COMPUTER SCIENCES CORP., FALLS CHURCH, VA, 1971, (A0-729 6951 153P. 24 REFS

DATA TRANSMISSION METHODS FOR S0 KILOBIT PER SECOND COMPUTER-TO-COMPUTER COMMUNICATIONS USING PRIMARILY SATELLITE LINKS ARE DISCUSSED. THERE IS NO EXPLANATION OF THE NEED FOR THIS HIGH DATA RATE. THE EMPHASIS IS ON VARIOUS APPROACHES TO MINIMIZING THE END-TO-END ERROR RATE FOR SUCH HIGH BANGWIGHT DATA COMMUNICATIONS.

FICK, HERBEPT, STRUCTURES AND OPERATING PRINCIPLES OF NETWORKS FOR DATA TRAFFIC, (SIEMENS AG, MUNICH, (WEST GERMANY)), THE SECOND INTERNATIONAL CONFERENCE ON COMPUTER COMMUNICATION, COMPUTER COMMUNICATION TODAY AND UP TO 1985, ISTOCKHOLM, (SWEDEN), AUGUST 12-14, 1974), INTERNATIONAL CONCIL OF ICCC, 1974, P S2S-533, 23 REFS

VARIOUS ASPECTS OF CIRCUIT-SWITCHED NETWORKS, BOTH WITH AND WITHOUT CLOCK CONTROL, ARE DISCUSSED: THEIR CHARACTERISTICS, STRUCTURES AND USE OF TIME-DIVISION MULTIPLEXING, THEN STORE-AND-FORWARD NETWORKS FOR MESSAGE AND PACKET SWITCHING ARE EXAMINED, OPERATING PRINCIPLES, FEATURES AND IMPLIED DELAYS ARE DISCUSSED.

FRANK. HOWARD. ISRAEL GITMAN, RICHARO VAN SLYKE, PACKET RADID SYSTEM--NETWORK CONSIDERATIONS, (NETWORK ANALYSIS CARA, HUMARU, ISTAEL VIIMAN, ALVING VAN SCHEV FORLE HUND STOLEN HUND STOLEN ALVIN AFIPS CONFERENCE PROCEEDINGS, VOLUME 44, 1975, NATIONAL COMPUTER CONFERENCE, IANAHEIM, CA, MAY 19-22, 1975), AFIPS PRESS, MONTVALE, NJ, 1975, (LC SE-447011, P 217-231, 20 REFS

ANALYTIC MODELING AND SIMLATION WERE THE TECHNIQUES USED TO INVESTIGATE THE DESIGN PROBLEMS OF THE PACKET RADIO WORK. COMPONENTS OF THE PACKET RADIO NETWORK, TOPOLOGY, ROUTING, AND DATA CAPACITY ARE DISCUSSED. NETWORK.

GAN, CIWAKAR G., OPTICAL LINKS FOR COMMUNICATIONS IN LOCAL OISTRIBUTION. (DATA TRANSMISSION CO., VIENNA, VAI, JACKSON, PETER E., PROCEEDINGS. ACM/IEEE SECOND SYMPOSIUM ON PROBLEMS IN THE OPTIMIZATION OF DATA COMMUNICATION SYSTEMS, (FALO ALTO, CA, OCTOBER 20-22, 1971), 1971, IEEE CAT-71CSO-C, P 86-05, 12 REFS

THE ADVANTAGES OF OPTICAL DATA COMMUNICATION LINKS ARE DESCRIBED, ATMOSPHERIC EFFECTS ARE ANALYZED, AND OPTICAL DETECTION TECHNIQUES ARE EVALUATED.

GERLA, MARIO, JOHN ECKL. MOVING BITS BY AIR, LANO AND SEA--CARRIERS, VANS AND PACKETS, (NETWORK ANALYSIS CORP., GLEN

COVE, NY1. AFIPS CONFERENCE PROCEEDINGS. VOLUME 44, 1975. NATIONAL COMPUTER CONFERENCE, (ANAHEIM, CA. MAY 19-22, 19751, AFIPS PRESS, MONTVALE, NJ, 1975, (LC S5-447011, P 129-135. 4 REFS

CONVENTIONAL AND SPECIALIZED CARRIERS AND VALUE-AODED NETWORKS, TYPICALLY PACKET-SWITCHED, ARE DISCUSSED AND REPRESENTATIVE COSTS GIVEN. THE AUTHORS OD NDT ATTEMPT TO PERSUADE THE READER TO AODRT DNE RARTICULAR APPROACH TO DATA COMUNICATIONS, RATHER THEY EMPHASIZE THE EVALUATION OF ALL ALTERNATIVES AVAILABLE BEFORE MAKING A SELECTION.

- DATA COMMUNICATIONS SYSTEM THROUGHPUT PERFORMANCE USING HIGH SPEED TERMINALS ON THE DIAL TELEPHONE GRUBB. DANA S. UBD, DANA ST. DATA COMMUNICATIONS STSTEM THROUGHPUT PERFORMANCE USING MICH SPEED TERMINALS UN THE DIAL TELEPHONE NETWORK, NATICNAL BUREAU OF STANDAROS, WASHINGTON, OC, INST. FOR COMPUTER SCIENCES AND TECHNOLOGY, MAY 73, NBS TN-779, 33P, 7 REFS (AANCTATION UNCER 2.2)
- YES, J. F., O. N. SHERMAN, TRAFFIC AND DELAY IN A CIRCULAR DATA NETWORK, (BELL TELEPHONE LABS, INC., HOLMDEL, NJI, JACKSON, PETER E., PROCEEDINGS. ACM/IEEE SECONO SYMPOSIUM ON PROBLEMS IN THE OPTIMIZATION OF DATA COMMUNICATION SYSTEMS, (PALO ALTO, CA, OCTOBER 20-22, 19711, 1971, IEEE CAT-7ICS9-C, R ID2-IO7, B REFS (ANNOTATION UNDER 2.1.2) FAYES.

HUSTEO. CURRENT AND NEAR FUTURE DATA TRANSMISSION VIA SATELLITES OF THE INTELSAT NETWORK, (COMSAT LABS.,

CLARSBURG, MOI, WINKLER, STANLEY, COMPUTER COMMUNICATIONS: IMPACTS AND IMPLEMENTATION. THE FIRST INTERNATIONAL CONFERENCE ON COMPUTER COMMUNICATION, (WASHINGTON, DC, OCTOBER 24-26, 1972), INTERNATIONAL CONFERENCES ON COMPUTER COMMUNICATION, 1972, ICCC 72-CH0-690-8C, NSF GJ-33239, P 358-363, 6 REFS

OATA TRANSMISSION PERFORMANCE CHARACTERISTICS FOR THE INTELSAT SATELLITE NETWORK, WHICH PRESENTLY USES CONVENTIONAL FREQUENCY-OIVISION MULTIPLEXING, ARE DETAILED. IN ADDITICN, PROJECTIONS ARE MADE FOR THE VERY NEAR FUTURE FOR OPERATIONAL SERVICE WHICH WILL PROVIDE OATA CHANNELS WHOSE OUALITY CAN BE VARIED TO SATISFY A RANGE OF BIT ERROR RATE PERFORMANCE SPECIFICATIONS.

- KAHN, ROBERT E.. THE ORGANIZATION OF COMPUTER RESOURCES INTO A PACKET RADID NETWORK. (AOVANCED RESEARCH PROJECTS HN, RUDERT E., THE UNUMERATION OF COMPUTER REGURARED THE REGURARED AND A HEAD ACENCY, ARLINGTON, VA), AFIPS CONFERENCE PROCEEDINGS, VOLUME 44, IS7S, NATIONAL COMPUTER CONFERENCE, (ANAHEIM, CA, MAY 19-22, 197S), AFIPS PRESS, MONTVALE, NJ, 197S, (LC SE-44701), P 177-186, 37 REFS (ANNOTATION UNCER 3.2.2)
- KAPLAN, SIDNEY J., THE ADVANCING COMMUNICATION TECHNOLOGY AND COMPUTER COMMUNICATION SYSTEMS, (WESTERN UNION TELEGRAPH CO., MANWAH, NJI, AFIES FRGCEEDINGS, 1968 SPRING JCINT COMPUTER COMFERENCE, VOLUME 32, (ATLANTIC CITY, NJ, APRIL 30-MAY 2, 1968), THOMPSON BOCK CO., WASHINGTON, DC., 1968, AFIPS CONFERENCE PROCEEDINGS, (LC SS-44701), P 119-133, 3 REFS

3.2.1 TRANSMISSION FACILITIES

RECENT ADVANCES IN COMMUNICATIONS TECHNOLOGY ALONG WITH NEW AND IMPROVED COMMUNICATIONS SERVICES PERMITTED BY THESE ADVANCES ARE DUTLINED. THE CHANGING COMPUTER COMMUNICATIONS REDUIREMENTS ARE ALSO PRESENTED. TI CARRIER, MICRONAWE TRANSMISSION, MULTIPLEXING, SWITCHING AND STORE-AND-FORWARD TECHNIDUES ARE ALL BRIEFLY DESCRIBED.

- KRETZMER, E. R., MODERN TECHNIQUES FOR DATA COMMUNICATION OVER TELEPHONE CHANNELS, IBELL TELEPHONE LABS, INC., HOLMDEL, N.D.
- INFORMATION PROCESSING 68: PROCEEDINGS OF 1FIP CONGRESS 1968. VOLUME 2--HAROWARE, APPLICATIONS, LEDINBURGH, ISCOTLAND), AUGUST S-10, 1968), NORTH-HOLLAND PUBLISHING CO., AMSTERDAM, (NETHERLANDS), 1969, IFIP CONGRESS PROCEEDINGS, (LC 65-24118), P 716-722, 10 REFS
- VETHCOS FOR INCREASING COMMUNICATION CHANNEL UTILIZATION ARE DESCRIBED. PHASE-SHIFT KEYING AND OTHER TECHNIQUES AND THEIR UTILITY IN MULTIPLYING EFFECTIVE BANDWIDTH ARE DISCUSSED, ALSO DISCUSSED ARE EDUALIZATION AND ERROR CONTROL TC COPE WITH THE INCREASED SENSITIVITO F THOSE TECHNIQUES TO NOISE AND OTHER CIRCUIT PARAMETERS.
- NORMAN ABRAMSON, SOME ADVANCES IN RADIO COMMUNICATIONS FOR COMPUTERS. IHAWAII. UNIV. OF. HONDLULU. KUD. FRANKLIN F.
- JG, FRANKLIN F., NORMAN ABRAMSON: SOME ADVANCES IN RADIO COMMUNICATIONS FOR COMPUTERS, IHAWAII, UNIV, OF, HONOLULU, Opt, of Electrical ensingeringg: Compoon 73 Seventh annual ieee computer society international conference, digest of papers, *computing networks from Minis threudin maxis are they for Reglez'* (San Francisco, Cai February 27-28, March 1, 1973), institute of electrical and electronic ensineers inc., New York, 1973, (LC 68-1628), p 57-60, 7 refs
- LABONTE, ROBERT C., DEVELOPING A WIRED NATION--A GENERAL PURPOSE DIGITAL COMMUNICATIONS SYSTEM FOR OPERATION ON A CONVENTIONAL CATV SYSTEM, (MITRE CORP., BEOFORO, MA). COMPCON 73 SEVENTH ANNUAL IEEE COMPUTER SOCIETY INTERNATIONAL CONFERENCE. DIGEST OF PAPERS. 'COMPUTING NETWORKS FROM MINIS THROUGH MAXIS -- ARE THEY FOR REAL?', (SAN FRANCISCO, CA. FEBRUARY 27-28, MARCH 1, 1973), INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS INC., NEW YORK, 1973, (LC 68-1628), P 85-88
- M, SIMON S,, LEDNARO KLEINROCK, DYNAMIC CONTROL SCHEMES FOR A PACKET SWITCHED MULTI-ACCESS BROADCAST CHANNEL, (INTERNATIONAL BUSINESS MACHINES CORP., YORKTOWN HEIGHTS, NY, THOMAS J, WATSON RESEARCH CENTER, CALIFORNIA, UNIV, OF, LOS ANGELES), LAMA STMON S.A AFIPS CONFERENCE PROCEEDINGS, VOLUME 44, 1975, NATIONAL COMPUTER CONFERENCE, (ANAHEIM, CA, MAY 19-22, 1975), AFIPS PRESS, MONTVALE, NJ, 1975, (LC SS-44701), P 143-153, 1S REFS
- OYNAMIC CHANNEL CONTROL IS PRESENTED AS A NECESSITY FOR GUARANTEEING AN ACCEPTABLE LEVEL OF CHANNEL PERFORMANCE IN RANOOM ACCESS COMMUNICATIONS SYSTEMS, SOME CONTROL ALGORITHMS ARE DISCUSSED, AND SIMULATION RESULTS INDICATE THAT THEY ARE CAPABLE OF ACHIEVING PERFORMANCE CLOSE TO THE OPTIMUM.
- LEMING, THOMAS L., THE ECONOMIES OF SPECIAL PURPOSE VS, GENERAL PURPOSE NETWORKS, INCI TELECOMMUNICATIONS CORP., WASHINGTON, DC). WASHINGTON, UCJ, HALL, ARTHUR D., III, DIGEST OF THE CONFERENCE ON THE ECONOMIES OF SCALE IN TODAY'S TELECOMMUNICATIONS SYSTEMS, (WASHINGTON, OC, SEPTEMBER 13, 1973), INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YORK, 1973, IEEE 73-CHC-03-0-SCALE, P 30-35
 - THE AUTHOR'S INTENT IS TO ESTABLISH A CASE FOR SPECIALIZED CARRIERS. HE APPROACHES THIS ISSUE IN TWO WAYS: WHY THE GENERAL PURPOSE TELEPHONE COMPANY CAN'T PROVIDE SPECIALIZED TELECOMMUNICATION SERVICES ECONOMICALLY AND WHY THE SPECIALIZED SERVICES CARRIERS CAN.
- LISSANDRELLO, GEORGE J., WORLD DATA COMMUNICATIONS AS SEEN BY THE DATA PROCESSING SYSTEMS DESIGNER, (IBM WORLD TRADE (CARP, NEW YORK). JACKSON, PETER E., PROCEEDINGS, ACM/IEEE SECOND SYMPOSIUM ON PROBLEMS IN THE OPTIMIZATION OF DATA COMMUNICATION SYSTEMS, (PALO ALTO, CA, OCTOBER 20-22, 1971), 1971, IEEE CAT-7ICS9-C, P 130-136
- THE COMPARATIVE ECONOMICS OF DATA COMMUNICATIONS IN SEVERAL COUNTRIES IS DISCUSSED. DIFFERENCES IN THE TARIFF STRUCTURES IN THESE COUNTRIES ARE PRESENTED ALONG WITH A COMPARISON OF BREAK-EVEN COST JUSTIFICATION OF LEASED VERSUS SWITCHED FACILITIES, ALSO INCLUDED ARE AVAILABILITY STATISTICS BY COUNTRY OF LEASED POINT-TO-POINT, LEASED MULTIPOINT, SWITCHED TELEPHONE, AND SWITCHED TELETYPEWRITER FACILITIES. (ALSO UNDER 1.2)
- LUCKY, ROBERT W., COMMON-CARRIER DATA COMMUNICATION, (BELL TELEPHONE LABS. INC., HOLMDEL, NJ), Abramscn, Norman, Franklin F. Kud, computer-communication Networks, prentice-hall inc., englewood cliffs, nj, 1973, Computer Applications in Electrical Engineering Series, (tksi02.s.a283), p 142-196, 18 Refs (Annotation Uncer 1,3)
- MAKING. YASUC. COMPETITION IN THE FIELDS OF COMPUTERS AND COMMUNICATIONS IN JAPAN. (MINISTRY OF POSTS AND KIND, YASUG, CEMPETITION IN THE FIELDS OF COMPUTERS AND CUMMUNICATIONS IN JAPAN. (MINISTRY DF POSTS AND TELECOMMUNICATIONS, TORYO, (JAPANI). WINKLER, STANLEY, COMPUTER COMMUNICATIONS: IMPACTS AND IMPLEMENTATION. THE FIRST INTERNATIONAL CONFERENCE ON COMPUTER COMMUNICATION, (WASHINGTON, DC, OCTOBER 24-26, 1972), INTERNATIONAL CONFERENCES ON COMPUTER COMMUNICATION, 1972, [CCC 72-CHC-690-BC, NSF GJ-33239, P 441-444 (ANNOTATION UNDER 5.4)
- SHIZAWA, YASUNORI, HIQENAO MUNAKATA, HIROSHI SUNAGAWA, HIROMASA IKEOA, THREE LEVEL SUBSCRIBER SIGNALING FOR OATA NETWORK, (OKI ELECTRIC INDUSTRY CO, LTO,, TOKYO, (JAPAN), ENGINEERING DEVELOPMENT DIV., NIPPON TELEGRAPH AND TELEPHONE PUELIC CORP., NUSASHINO, (JAPAN), MUSASHINO ELECTRICAL COMMUNICATION LASI), DATA NETWORKS: ANALYSIS ANO DESIGN, THIRO DATA COMMUNICATIONS SYMPOSIUM, (ST. PETERSBURG, FL, NOVEMBER 13-IS, 1973), INSTITUTE OF ELECTRICAL AND ELECTRONICE ENGINEERS INC., NEW YORK, 1973, LEEC EN-73-CHOB20-4C, P 50-58, 4 REFS NISHIZAWA. YASUNORI.

THIS PAPER REPORTS RESULTS OF A STUDY ON THE SUBSCRIBER SIGNALING SYSTEM IN A DATA SWITCHING NETWORK. THE AUTHORS DISCUSS REQUIREMENTS FOR THE SUBSCRIBER LINE SIGNALING AND THE ADVANTAGES IN REALIZING THE REQUIREMENTS WITH A THREE LEVEL SIGNALING SYSTEM. THE SYSTEM IS APPLICABLE TO BOTH START-STOP AND SYNCHRONOUS TERMINALS.

- CHLMER, AUGUST, SUMMARY OF THE EXISTING DATA COMMUNICATIONS SERVICES IN WESTERN EUROPE AND TENTATIVE FORECAST OF NEW SERVICES FOR THE NEXT DECADE, (BUNDESMINISTERIUM FUER DAS POST UND FERNMELDEWESEN, (WEST GEMANY)). WINKLER, STANLEY, COMPUTER COMMUNICATIONS: IMPACTS AND IMPLEMENTATION THE FIRST INTERNATIONAL CONFERENCE ON COMPUTER COMMUNICATION, (WASHINGTON, OC, OCTOBER 24-26, 1972), INTERNATIONAL CONFERENCES ON COMPUTER COMMUNICATION, 1972, ICCC 72-CHC-690-BC, NSF GJ-33239, P 260-266 (ANDTATICH UNDER 1.6)
- O'NEIL, O. R., ERROR CONTROL FOR DIGITAL DATA TRANSMISSION OVER TELEPHONE NETWORKS, MITRE CORP., BEDFORO, MA, MAY 65, MC TM-04113, AF 19(628)-2390, IAF-ESO TR-65-87, AO-616 678), 48P, 27 REFS

THE PRESENTATION OF ERROR CONTROL TECHNIQUES FOR BINARY DIGITAL DATA TRANSMISSION OVER COMMERCIAL TELEPHONE NETWORKS CONTAINED IN THIS REPORT COVERS ERROR CONTROL ALGORITHMS, ERROR STATISTICS FOR DIGITAL DATA ON TELEPHONE LINES, AND PERFORMANCE EVALUATION OF THE RELEVANT STATISTICAL TECHNIQUES, HAROWARE ERROR CONTROL DEVICES ARE ALSO SURVEYED. (ALSO UNDER 2+2)

CHWARTZ, JAY W., MICHAEL MUNTNER, MULTIPLE-ACCESS COMMUNICATIONS FOR COMPUTER NETS, (INSTITUTE FOR DEFENSE ANALYSES, ARLINGTON, VA, DEFENSE COMMUNICATIONS AGENCY, WASHINGTON, OC, SYSTEM ENGINEERING FACILITY), ABRAMSON, NORMAN, FRANKLIN F, KUD, COMPUTER-COMMUNICATION NETWORKS, PRENTICE-HALL INC., ENGLEWOOD CLIFFS, NJ, 1973, CCMPUTER APPLICATIONS IN ELECTRICAL ENGINEERING SERIES, (TK5102,5,A283), P 269-294, 23 REFS SCHWARTZ, JAY W..

THIS CHAPTER DEALS WITH MULTIPLE ACCESS TECHNIQUES INCLUDING SATELLITE AND LINE-OF-SIGHT CHANNELS FOR COMPUTER NETWORKS, IT DEMONSTRATES THAT A LARGE NUMBER OF USERS CAN BE ACCOMMODATED WITH NETTED OPERATION IN TERRESTRIAL RADIO AND COMMUNICATION SATELLITE CHANNELS.

- STAMBLER, LEON, ELEMENTARY TELEPHONE SWITCHING THEORY APPLIED TO THE DESIGN OF MESSAGE SWITCHING SYSTEMS, (RADID CORP. OF AMERICA, NEW YORK, DIV. OF COMMUNICATION SYSTEMS). AFIPS PROCEEDINGS, 1966 FALL JOINT COMPUTER CONFERENCE VOLUME 29, (SAN FRANCISCO, CA, NOVEMBER 7-10, 1966), SPARTAN BOOKS INC., WASHINGTON, DC, 1966, AFIPS CONFERENCE PROCEEDINGS, (LC SS-44701), P 413-423, S REFS
- THE AUTHOR SYSTEMATICALLY DEVELOPS A MODEL OF A MESSAGE SWITCHED SYSTEM BASED ON TELEPHONE SWITCHING THEORY. EFFECTIVENESS OF THE MESSAGE SWITCH IS MEASURED IN TERMS OF TRUNK UTILIZATION. THE TECHNIQUES PROVIDE A MEANS FOR STUDYING CHANNEL COORDINATION AND HAROWARE/SOFTWARE TRADEOFFS.

3.2.1 TRANSMISSION FACILITIES

(ALSO UNDER 2.1.2)

STUENER, CARL F., BELL SYSTEM SERVICES FOR OIGITAL OATA TRANSMISSION. (AMERICAN TELEPHONE AND TELEGRAPH CO., NEW YORK), FACTS AND FUTURES. WHAT'S HAPPENING NOW IN COMPUTING FOR HIGHER EDUCATION. PROCEEDINGS OF THE EDUCOM FALL CONFERENCE, (PRINCETON, NJ, OCTOBER 9-11, 1973), INTERUNIVERSITY COMMUNICATIONS COUNCIL INC. [EDUCOM], PRINCETON, NJ, 1974, (LC 74-79223), P 322-337

THIS ARTICLE EXPLAINS THE ALTERNATIVES AT & T OFFERS FOR USE IN THE CONSTRUCTION OF OATA NETWORKS. THE OATAPHONE DIGITAL SERVICE (OOS) AND DATA UNDER VOICE (OUV) FACILITY ARE DESCRIBED.

SUNG, R., J. 8. WOODFORD, STUDY OF COMMUNICATION LINKS FOR THE BIDMEDICAL COMMUNICATIONS NETWORK, AEROSPACE CORP., EL SEGUNDO, CA, DIV, OF SATELLITE SYSTEMS, 29 MAY 69, AC ATR-69(7130-06)-1, NIH PH-43-68-991, 278P, S6 REFS

THE TECHNICAL AND ECONOMIC ASPECTS OF PROVIDING THE COMMUNICATIONS LINKS FOR A BIOMEDICAL COMMUNICATIONS NETWORK ARE OUTLINEO. A VARIETY OF POTENTIAL COMMUNICATION LINKS ARE CONSIDERED, BUT SATELLITE LINKS RECEIVE SPECIAL ATTENTIO AND IT IS SHOWN UNDER WHAT CONDITIONS THEY BECOME ECONOMICALLY FAVORABLE. THE TECHNOLOGICAL DISCUSSION IS PRECEDED BY DESCRIPTION OF BIOMEDICAL COMMUNICATIONS APPLICATIONS. (ALSO UNDER 1.1) SPECIAL ATTENTION.

TALBERT, LEE B., PCI'S VANLINE SERVICE, (PACKET COMMUNICATIONS INC.), FACTS AND FUTURES, WHAT'S HAPPENING NOW IN COMPUTING FOR HIGHER EQUCATION, PROCEEDINGS OF THE EQUCON FALL CONFERENCE, (PRINCETCN, NJ, OCTOBER 9-11, 1973), INTERUNIVERSITY COMMUNICATIONS COUNCIL INC. (EDUCOM), PRINCETON, NJ, 197A, (LC 74-79222), P 327-332

THIS ARTICLE DISCUSSES THE CONCEPT OF VALUE-ADDED NETWORKS IN ADDITION TO PCI'S ATTEMPTED IMPLEMENTATION, VANLINE. THIS ANTILLE OISCOSSES THE CONCEPT OF VALUE ADDED ADDED ADDED ADDED TO THAT OF OF SATIFIED TAPLED TAPLED THE TECHNOLOGICAL BASE FOR THIS NETWORK WHICH LODKED LIKE AN ARPANET. PROKET-SWITCHING IS PROPOSED AS THE PRACTICAL SOLUTION TO A NATIONNIOS REFORMENT ADDET ADDET ADDET ADDET ADDET ADDET ADDET ADDET AD SYSTEM. ALTHOUGH PCIS VAN OD NOT FLV. OUE TO FINANCIAL DIFFICULTIES, THE CONCEPTS PROPOSED ARE STILL OUTE VALID, PACKET-SWITCHING IS

TRAFTON, P. J., H. A. BLANK, N. F. NCALLISTER, DATA TRANSMISSION NETWORK COMPUTER-TO-COMPUTER STUDY, (COMPUTER Sciences comp., Falls church, VA), JACKSCN, Feter E., PROCECOINGS, ACM/IEEE SECOND SYMPOSIUM ON PROBLEMS IN THE OPTIMIZATION OF DATA COMMUNICATION SYSTEMS,

(PALO ALTO, CA, OCTOBER 20-22, 1971), 1971, IEEE CAT-71CS9-C, P 183-191, 16 REFS

ERRCR CONTROL IS STUDIED FOR COMPUTER-TO-COMPUTER COMMUNICATIONS USING A SATELLITE LINK WITH INTERCONNECTING LAND LINES. THE DBJECTIVE IS TO ACHIEVE AN EFFECTIVE ERROR RATE OF ONE IN ONE HUNDRED MILLION BITS. THE TECHNIQUES ANALYZED ARE FORMARD ERROR CORRECTING (FEC) AND AUTO REPEAT REQUEST (ARD). THE CONCLUSIONS ARE THAT ARD IS A CLEAR CHDICE FOR SEPARATE ERROR CONTROL ON INDIVIOUAL INTERCONNECTING LINKS, FEC WINS IN THE END ERROR CONTROL CASE.

- VOLK, JOHN L., INTERACTIVE TELEVISION EXPERIMENT IN RESTON, VIPGINIA, (MITRE CORP., MCLEAN, VA), COMPCON 73 SEVENTH ANNUAL IEEE COMPUTER SOCIETY INTERNATIONAL COMERENCE, DIGEST OF PAPERS, *COMPUTING NETWORKS FROM MINIS. THROUGH MAXIS -- ARE THEY FOR REAL?*, (SAN FRANCISCO, CA, FEBRUARY 27-28, MARCH 1, 1973), INSTITUTE OF ELECTRICAL AND ELECTRONIC ENSINEERS INC., NEW YORK, 1973, (LC 60-1628), P 81-84 IANNOTATION UNDER 4.9)
- WALKER. PHILIP M.. STUART L. MATHISON, REGULATORY POLICY AND FUTURE DATA TRANSMISSION SERVICES, (TELENET COMMUNICATIONS CORP., WALTHAN, NA). AGRANSON, NORMAN, FRANKLIN F. KUO, COMPUTER-COMMUNICATION NETWORKS, PRENTICE-HALL INC., ENGLEWOOD CLIFFS, NJ, 1973, COMPUTER APPLICATIONS IN ELECTRICAL ENGINEERING SERIES, (TKS102-S-A283), P 295-370, 13 REFS (ANOTATION UNDER 5.4)
- WALKER, PHILIP M., STUART L. MATHISON, SPECIALIZEO COMMON CARRIERS. (GEORGETOWN, UNIV, OF, WASHINGTON, OC, LAW CENTER, LITTLE LARTHUR D.) INC., CAMBRIDGE, MA). TELEPFONE ENGINEER AND MANAGEMENT, IS OCT 71. P 41-60, 8 REFS (ANNOTATION UNDER 1.6)

3.2.2 SYSTEM DESIGN

- ABRAMSON, NORMAN, FINAL TECHNICAL REPORT FOR CONTRACT NUMBER NAS2-6700, HAWAII, UNIV, OF, HONOLULU, ALOHA SYSTEM, JAN 73, HU TR-875-I, 49P -875-I. 7S. HU TR-B75-I. 49P (ANNOTATION UNDER 3.1.1)
- ABRAMSON, NORMAN, PACKET SWITCHING WITH SATELLITES, HAWAII, UNIV. OF, HONOLULU, ALOHA SYSTEM, MAR 73, HU 873-2, NASA NAS2-6700, AF F44620-69-C-0030, ONR NO0014-70-C-0414, 24P, 20 REFS (ANNOTATION UNDER 3.2.1)
- INDER, P., N. ABRAMSON, F. KUO, A. OKINAKA, O, WAX, ALCHA PACKET BROADCASTING--A RETROSPECT, (BOLT, BERANEK AND Nëman Inc., Cambridge, ma, mawaii, univ. Of, monolulu, aloha System), Afips conference proceedings, volume ay, 1575, national computer Conference, (anaheim, ca, may 19-22, 1975), Afips Press, montvale, nj, 1975, (LC SS-44701), P 203-215, 15 REFS (annotation under 3.1.2) BINGER. R.
- CHOU, WUSHOW, PLANNING AND DESIGN OF DATA COMMUNICATIONS NETWORKS, (NETWORK ANALYSIS CORP., GLEN COVE, NY), AFIPS CONFERENCE PROCECOINGS, VOLUME 43, 1974, NATIONAL COMPUTER CONFERENCE, (CHICAGO, IL, MAY 6-10, 1974), AFIPS CONFERENCE PROCECOINGS, (LC SS-44701), P SS3-S9, 6 REFS (ANNOTATION UNDER S.O.)
- H. FRANK, R. VAN SLYKE, SIMULATION OF CENTRALIZED COMPUTER COMMUNICATIONS SYSTEMS, INETWORK ANALYSIS CORP.,

(00, 0:, N; FRANK, D; JA, GENER, SALES, SALE

THE AUTHORS DESCRIBE THE SIMULATION APPROACH FOR A GENERALIZED COMPUTER COMMUNICATION SYSTEM. THE SIMULATI ON THE ACTIONS USSENTED INC SIMULATION APPROACH FUR A GENERALIZED COMPUTER COMMUNICATION SYSTEM. THE SIMULATION PROGRAM CONSISTS OF THREE MODULES THE POLLED MULTIONOP LINE CONNECTING REMOTE TERMINALS TO THE CONCENTRATOR. THE THE LOWEST LEVEL MODELS THE POLLED MULTIONOP LINE CONNECTING REMOTE TERMINALS TO THE CONCENTRATOR. THE SECOND LEVEL MODELS THE TRUNK LINES AND THE CONCENTRATOR. THE TIGEST LEVEL MODELS THE CONTRATE WHICH COMMUNICATES WITH REMOTE TERMINALS VIA THE TRUNKS. THE TECHNIQUES DEVELOPED ARE ILLUSTRATED BY APPLICATION TO THE NASOAD SYSTEM. (ALSO UNDER 2.111)

CLOWES. G. J., C. S. JAYASURIYA, TRAFFIC CONSIDERATIONS IN SWITCHED DATA NETWORKS, (BELL-NORTHERN RESEARCH, OTTAWA, (CANADA)).

LATA NETWORKS: ANALYSIS AND DESIGN. THIRO DATA COMMUNICATIONS SYMPOSIUM, (ST, PETERSBURG, FL, NOVEMBER 13+15, 1973), INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YORK, 1973, IEEE CN-73-CH082B-AC, P 18-22, 9 REFS

DIFFERENT TYPES OF SWITCHED NETWORKS (CIRCUIT SWITCHED, PACKET SWITCHED, AND COMBINED CIRCUIT/PACKET SWITCHED) ARE CCMPARED BASED ON A MODEL FOR THE DATA TRAFFIC BETWEEN MAJOR CANADIAN CITIES. CONSIDERATION IS GIVEN TO THE INTERNODAL GRADE OF SERVICE AND THE SIGNIFICANT NETWORK DESIGN PARAMETERS. DIFFERENT NETWORK TOPOLOGIES, WITH FIAED RCUTING STRATEGIES ARE ANALYZED.

CUCCIO, ALLEN 8. J., MICROPROCESSOR UTILIZATION IN TRANSACTION TERMINAL NETS, (HONEYWELL INFORMATION SYSTEMS INC., OKLAHOMA CITY, OK), COMPCON 73 - SEVENTH ANNUAL IEEE COMPUTER SOCIETY INTERNATIONAL CONFERENCE, DIGEST OF PAPERS, "COMPUTING NETWORKS FROM MINIS THROUGH MAXIS -- ARE THEY FOR REAL?", (SAN FRANCISCO, CA, FEBRUARY 27-28, MARCH 1, 1973), INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS INC., NEW YORK, 1973, ILC 68-1628), P 161-164, 1 REFS

THE HONEYWELL INFORMATION SYSTEMS BANK TELLER TERMINALS HAVE A MICROPROCESSOR INCORPORATED IN THE TERMINAL, THE ADVANTAGES OF THESE INTELLIGENT TERMINALS IN A TRANSACTION TERMINAL NETWORK AND BENEFITS OVER EARLIER SYSTEMS OESIGNS ARE DISCUSSED, TWO TYPES OF SYSTEM ARCHITECTURE, THE DECENTRALIZED APPROACH WITH INTELLIGENT TERMINALS AND A CENTRALIZED APPROACH WITH MINIMAL TERMINAL CAPABILITIES, ARE COMPARED, STATISTICS ARE GIVEN TO SHOW THE ADVANTAGES OF THE FIRST SYSTEM ARCHITECTURE.

DASILVA: JOHN S., ON THE DESIRABILITY OF INTEGRATING A COMMUNICATION SYSTEM FOR TWO USER CLASSES: (MINISTRY OF COMMUNICATIONS, OTTAWA, (CANADA)). CCMPCON 73 - SEVENTH ANNUAL IEEE COMPUTER SOCIETY INTERNATIONAL CONFERENCE, DIGEST OF PAPERS, *COMPUTING NETWORKS FROM

3.2.2 SYSTEM DESIGN

MINIS THROUGH MAXIS -- ARE THEY FOR REAL?", (SAN FRANCISCO, CA, FEBRUARY 27-28, MARCH I, 1973), INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS INC., NEW YORK, 1973, (LC 68-1628), P 113-117, 4 REFS (ANNOTATION UNCER 2.1,2)

DAVIES, ODNALD W., PACKET SWITCHING, MESSAGE SWITCHING AND FUTURE DATA COMMUNICATION NETWORKS, (NATIONAL PHYSICAL LAB., AVIES, DUNALD W., PACKET SWITCHING MESSAGE STITUTION IN THE TOTAGE CONGRESS 74. I. COMPUTER MAROWARE AND ARCHITECTURE. TEODINFORM, (ENGLAND). ROSENFELD, JACK L., INFORMATION PROCESSING 74. PROCEEDINGS OF IFIP CONGRESS 74. I. COMPUTER MAROWARE AND ARCHITECTURE. (STOCKHOLM, (SWEDEN), AUGUST S-ID, 1974). AMERICAN ELSEVIER PUBLISHING CD. INC.. NEW YO^RK, 1974. P 147-ISD. S REFS

THE FEW PACKET SWITCHED DATA COMMUNICATION NETWORKS NOW IN EXISTENCE WILL SOON BE JOINED BY MANY OTHERS WHICH ARE AT AN ADVANCED STAGE OF PLANNING DR DEVELOPMENT. THE IMPLICATIONS FOR STANDARDIZATION AND INTERWORKING ARE DESCRIBED.

VIES, O. W., K. A. BARTLETT, R. A. SCANTLEBURY, P. T. WILKINSON, A DIGITAL COMMUNICATION NETWORK FOR COMPUTERS GIVING RAPIO RESPONSE AT REMOTE TERMINALS, (NATICNAL PHYSICAL LAB., TEODINGTON. (ENGLAND)), PROCEEDINGS OF THE ACM SYMPOSIUM ON OPERATING SYSTEM PRINCIPLES, (GATLINBURG, TN. OCTOBER 1967), 1967, 7 REFS (ANNOTATION UNDER 3.1.0) OAVIES, 0.

CAVIES, 0. W., COMMUNICATION NETWORKS TO SERVE RAPIO-RESPONSE COMPUTERS, (NATIONAL PHYSICAL LAB., TEDDINGTON,

(ENGLAND)), INFORMATICN PROCESSING 68; PROCEEDINGS DF IFIP CONGRESS 1968, VOLUME 2--HARDWARE, APPLICATIONS, (EDINBURGH, (SCOTLAND), AUGUST S-10, 1968), NORTH-HOLLAND PUBLISHING CO., AMSTERDAM, (NETHERLANDS), 1969, IFIP CONGRESS PROCEEDINGS, (LC 65-24118), P 650-658, 4 REFS

STORE-ANO-FORWARD TECHNIQUES ARE PROPOSED AS A PROMISING ALTERNATIVE FOR DATA COMMUNICATIONS IN A NETWORKING ENVIRONMENT. EXISTING NETWORK SCHEMES ARE IDENTIFIED AND THE ADVANTAGES OF THE MESSAGE CONCENTRATION NETWORK DVER THE MULTI-DROP NETWORK ARE DETAILED. A DISCUSSION ON AVAILABLE COMMUNICATION TECHNIDUES IS INSERTED AND PULSE COD MCCOULATION IS DISCUSSED IN SOME DETAIL.

QELL, F. R. E., FEATURES OF A PROPOSED SYNCHRONDUS GATA NETWORK, (UNITED KINGDOM POST DEFICE, LONGON, GEPT, OF TELECOMPUNICATIONS OF VERDENSED SINCHAUNDUS ONA REINDRY, TURIED RINGDUM POST DEFICE, EUNDAN, DEFIT OF TELECOMPUNICATIONS DEVELOPMENT), JACKSCN. PETER E., PROCEEDINGS, ACM/IEEE SECONO SYMPOSIUM ON PROBLEMS IN THE OPTIMIZATION OF DATA COMMUNICATION SYSTEMS. (PALD ALTO, CA, OCTOBER 20-22, 1971), 1971, IEEE CAT-7ICS9-C, P SO-S7 (ANNOTATION UNDER 3.1.0)

OESPRES, REMI F., A PACKET SWITCHING NETWORK WITH GRACEFUL SATURATED DPERATION, (CENTRE, NATIONAL O'ETUDES GEO TELECOMMUNICATIONS (CNET), ISSY LES MOULINEAUX, (FRANCE), WINKLER, STANLEY, COMPUTER COMMUNICATIONS: IMPACTS AND IMPLEMENTATION, THE FIRST INTERNATIONAL CONFERENCE ON COMPUTER COMMUNICATION, (WASHINGTON, GC, DCTOBER 24-26, 1972), INTERNATIONAL CONFERENCES ON COMPUTER COMMUNICATION, 1972, ICCC 72-CHO-90-DEO, NSF 6J-33239, P 345-331, 14 REFS

A CONCEPTUAL SPECIFICATION FOR A PACKET SWITCHING NET#ORK DESIGNED TO DPERATE UNDER A SATURATED CDNDITION IS PRESENTED. IT COMPRISES FIXED ROUTING, I.E., A VIRTUAL CIRCUIT IS ESTABLISHED BETWEEN TWO CORRESPONDENTS, PRIVATE BUFFERING ALLOCATING A BUFFER FOR EACH CIRCUIT, PACKET MANDSHAKING INDICATING THE FREEING DF A BUFFER FOR THE NEXT TRANSMISSION, AND VARIABLE PACKET LENGTH. PRIVATE BUFFERING HAS ADVANTAGES, BUT IT REQUIRES CONSIDERABLE STDRAGE SPACE. PACKET HANDSHAKING REQUIRES ADDITIDNAL STOPAGE SPACE TO GUARANTEE ACCEPTANCE OF THE ACKNOWLEDGENENT AND TO AVOID A LOCKDUT. VARIABLE PACKET LENGTH REDUIRES OVERHEAD IN BUFFER ALLOCATION AND COLLECTION. THESE FACTORS SHOULD BE CONSIDERED IN EVALUATING THIS PROPOSAL. (ALSO UNDER 3.4.1)

FERGUSON, MICHAEL J., AN ANALYSIS OF VARIABLE LENGTH PACKETS IN UNSLOTTED ALOHA. HAWAII, UNIV. OF, HONDLULU, ALOHA System, Feb 75, Hu TR-B75-7, NASA NAS2-8590, 99, 7 REFS

THIS PAPER ANALYZES A NOOEL FOR THE UNSLOTTED ALOHA SYSTEM WITH VARIABLE LENGTH PACKETS. THE STUDY SHOWS THAT EXPONENTIAL MESSAGES IN AN UNSLOTTED CHANNEL HAVE LOWER THROUGHPUT THAN FIXED LENGTH PACKETS. AN EXTENSION TO OT AN EXTENSION TO OTHER PACKET DISTRIBUTIONS IS UNDERWAY.

FOSTER, O. F., L. S. NIOUS, J. M. VENE, MACIMS COMMUNICATION NETWORK CONFIGURATION. MITRE CORP., BEOFORO, MA, 31 JUL 71, MC MTR-2176, AF FIS628-71-C-0002, I66P, 20 REFS

THE MILITARY AIRLIFT COMMAND (MAC) INFORMATION MANAGEMENT SYSTEM (MACIMS) IS A FUNCTIONALLY INTEGRATED COMMAND, CONTROL AND MANAGEMENT INFORMATION SYSTEM WICH WILL ALD MAC IN ACHIEVING A MAJOR IMPROVEMENT IN CONTROL AND MANAGEMENT OF THE MAC FLEET. THE MACIMS SYSTEM INCLUDES THREE OATA PROCESSING CENTERS TOGETHER WITH FIFTEEN REMOTE BASES WICH HAVE ACCESS TO THE PROCESSING CENTERS ON AN INTERACTIVE BASIS. MACIMS RELIES EXTENSIVELY ON A COMMUNICATION NETWORK FOR OATA EXCHANGE BETWEEN PROCESSING CENTERS AND TO PROVIDE REMOTE USERS WITH INTERACTIVE ACCESS TO THE OATA PROCESSING OUTMENT. A OATA COMMUNICATIONS SUBSYSTEM FOR MACIMS IS DESCRIBED IN THIS REPORT WHICH WILL MEET CURRENTLY DEFINED REDUIREMENTS. THE TECHNICAL DESCRIPTION IS BASED ON INDIVIDUAL CONSIDERATIONS AT EACH REMOTE SITE. THE PROPOSE OF MEMINIAL CONFIGURATIONS FOR THE REMOTE BASES INCLUDE A MIXIVE OF MULTIPLEXERS, MINICOMPUTERS AND CONTROLLERS FOR MULTI-ORDP LINES. A DESCRIPTION OF THE TERMINALS IS ALSO INCLUDED.

FRANK, HOWARO, COMPUTER NETWORKS: ART TO SCIENCE TO ART.(PRESENTED AT THE, PROCEEDINGS OF THE SYMPOSIUM ON LARGE-SCALE NETWORKS, EVANSTON, IL, APRIL IB-19, 1574), (NETWORK ANALYSIS CORP., GLEN COVE, NY), NETWORKS, VOL S, ISSUE 1, JAN 75, P 7-32, IG REFS (ANNOTATION UNDER 1-3)

FRANK, HOWARO, PROVIDING RELIABLE NETWORKS WITH UNRELIABLE COMPONENTS, (NETWORK ANALYSIS CORP., GLEN COVE, NY), OATA NETWORKS: ANALYSIS AND DESIGN. THIRD DATA COMMUNICATIONS SYMPOSIUM, (ST. PETERSBURG, FL. NOVEMBER 13-15, 1 INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YORK, 1973, IEEE CN-73-CHOB28-4C, P 16I-164, B REFS 19731.

THE AUTHOR POINTS OUT THAT MANY LARGE COMMUNICATIONS NETWORKS ARE BEING DESIGNED WITH LITTLE CONSIDERATION OF NETWORK RELIABILITY AS DISTINGUISHED FROM COMPONENT OR ELEMENT RELIABILITY. HE DISCUSSES (1) POSSIBLE MEASURES OF NETWORK RELIABILITY AND (2) WAYS FOR IMPROVING RELIABILITY OF TERMINAL ORIENTED NETWORKS WITH CONCENTRATORS.

FRANK, H., I. T. FRISCH, PLANNING COMPUTER-COMMUNICATION NETWORKS. (NETWORK ANALYSIS CORP., GLEN COVE, NY). ABRAMSON, NORMAN, FRANKLIN F. KUO, COMPUTER-COMMUNICATION NETWORKS, PRENTICE-HALL INC., ENGLEWODO CLIFFS, NJ, 1973, COMPUTER APPLICATION SIN ELECTRICAL ENGINEERING SERIES, (TKSI02,S.4283), P 1-28, 20 REFS

GERLA, MARIO, NEW LINE TARIFFS AND THEIR IMPACT ON NETWORK DESIGN. (NETWORK ANALYSIS CORP., GLEN COVE, NY), Arips conference proceedings. volume 43. 1974. National computer conference. (Chicago ilu, may 6-10. 1974). Afips press. Montvale. NJ. 1974. Afips conference Proceedings. (LC SS-44701). P S77-S82. 6 REFS

THIS PAPER ADDRESSES THE IMPACT OF VARIOUS LINE TARIEF ALTERNATIVES ON NETWORK DESIGN. EXISTING AND PROPOSED TAR FOR COMMON CARRIERS, SPECIALIZED COMMON CARRIERS, VALUE-AODED NETWORKS, AND SATELLITE COMMUNICATIONS ARE GIVEN. THE COST COMPUTATION FOR NETWORK DESIGN IS CONSTRUCTED FOR DISTANCE DEPENDENT GIO), LOCATION DEPENDENT (LOD) AND VOLUME EXISTING AND PROPOSED TARIFFS THEN LINE

CUST COMPETATION FOR THE AUTOR DESIGN IS CONSTRUCTED FOR OFSTARED DEPENDENT OF OF DEPENDENT COOPY AND THE AUTHOR STRESSES PRECISE SPECIFICATION OF COMMUNICATIONS REQUIREMENTS AND PREPAREONESS TO RECONFIGURE CURRENT NETWORKS TO INSURE ECONOMIES THROUGH NETWORK OESIGN. (ALSO UNDER S.4)

GRISETTI, ROBERT 5, THE SYNTHESIS OF COMMUNICATIONS AND COMPUTERS. (WESTERN UNION TELEGRAPH CO.). GRUENDERGER, F., COMPUTERS AND COMMUNICATIONS--TOWARD A COMPUTER UTILITY, PRENTICE-HALL INC., ENGLEWODD CLIFFS, NJ, ISOB, (TK SIDI-CO', LC GB-TO7O), P 209-219

WESTERN UNION'S ISCS (INFORMATION SERVICE COMPUTER SYSTEM) WHICH IS A PUBLIC MESSAGE SERVICE IS DESCRIBED. THE ISCS CONSISTS OF PROCESSOR CENTERS (PC'S) AT SAN FRANCISCO, CHICAGO, AND NEW YORK WHICH PERFORM ALL LOGICAL FUNCTIONS ASSOCIATED WITH PROCESSING AND TRANSMITTING MESSAGES. EACH PC IS CONNECTED TO A COMMUNICATION CENTER (CC) AND ALL CC'S ARE INTERCONNECTED. THE CC'S ARE USED FOR TERMINAL SERVICING AND LINE INTERACTIONS. BOTH PC'S AND CC'S ARE UNIVAC 418'S, NC INFORMATION IS GIVEN ON THE HOW PC'S AND CC'S ACTUALLY PROCESS MESSAGES INTERNALLY.

HITTEL, L. A.. SOME PROBLEMS IN OATA COMMUNICATIONS BETWEEN THE USER AND THE COMPUTER, (GENERAL ELECTRIC CO., PHOENIX,

A2), AFIPS PROCEEDINGS. 1966 FALL JOINT COMPUTER CONFERENCE. VCLUME 29, (SAN FRANCISCO, CA, NOVEMBER 7-10, 1966), SPARTAN BOOKS INC., WASHINGTON, OC, 1966, AFIPS CONFERENCE PROCEEDINGS, (LC SS-44701), P 395-402

3.2.2 SYSTEM DESIGN

(ANNOTATION UNDER 1.3)

COH, KAZUO, TAKAO KATO, ON HASHIDA, YUTAKA YOSHIDA, AN ANALYSIS OF TRAFFIC HANDLING CAPACITY OF PACKET SWITCHED AND CIRCUIT SWITCHED NETWORKS. (HITACHI LTO., YOKOHAMA, (JAPAN), TOTSUKA WORKS, NIPPON TELEGRARH AND TELEPHONE RUBLIC CORR., MUSASHIND, (JAPAN), MUSASHIND ELECTRICAL COMMUNICATION LA8.), CATA NETWORKS: ANALYSIS AND DESIGN, THIRD DATA COMMUNICATIONS SYMPOSIUM, (ST. PETERSBURG, FL. NOVEMBER 13-15, 1973), ITOH. KAZUO.

INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YORK, 1973, IEEE CN-73-CH0828-4C, P 29-37. S REFS

THIS PARER FEPORTS THE RESULTS OF A STUDY ON TRAFFIC MANDLING CARACITY OF SWITCHING NODES AND TRANSMISSION ES IN THE CIRCUIT AND PACKET SWITCHED NETWORK. COST EVALUATION METHODS FOR THE TWO TYPES OF NETWORKS ARE SENTED, THE RESULTS OF THE COMPARISON INDICATE THAT THERE ARE APPLICATION REGIONS FAVORABLE FOR EACH TYRE OF I INES RRESENTED.

JANSKY, CURTIS M., STRATEGIES FOR MAXIMUM COST EFFECTIVENESS OF A SWITCHED NETWORK, (ADVANCED TECHNOLOGY SYSTEMS INC., ARLINGTON, VA). TELECOMMUNICATIONS, VOL 6, ISSUE 4, APR 72, P 25-28, 30, 32, 21 REFS

THIS ARTICLE CONTAINS A POTROURRI OF INFORMATION OF INTEREST TO THE DESIGNER OF DATA COMMUNICATIONS SYSTEMS. THE SYSTEM CONCERTS EMPHASIZED HERE ARE BASED ON THE STRATEGY OF UTILIZING 'TIME' AS AN OPERATIONAL PARAMETER IN THE FUNCTIONING OF THE SYSTEM. THIS RARAMETER IS APRLIED TO SUCH DIVERSE ANALYSES AS SATISFYING HUMAN REAL-TIME REQUIREMENTS AND DETERMINING THE NUMBER OF GATES IN THE LOGIC CIRCUITRY REEDED FOR A DATA TERMINAL.

RRE, RALPH, JOHN HAYTER, GEOFF BOYFIELO, AN AIO TO DESIGNING, STORING AND ANALYSING DATA TRANSMISSION SYSTEM CONFIGURATIONS, (BRITISH POST OFFICE, LONDON, (ENGLAND)), THE SECOND INTERNATIONAL COMPERENCE ON COMPUTER COMMUNICATION TODAY AND UP TO 1985, (STOCKHOLM, (Sweden), August 12-14, 1974), INTERNATIONAL COUNCIL OF 1CCC, 1974, P 421-432, 2 REFS JORRE. RALPH.

IDENTIFICATION OF MEASURABLE ELEMENTS OF DATA TRANSMISSION SYSTEMS IS PRESCRIBED AS THE FIRST STEP TO CONFIGURING SUCH Systems, the development of a fictitious data transmission system through four stages of increasing complexity is PROVICED.

KAHN, ROBERT E., THE ORGANIZATION OF COMPUTER RESOURCES INTO A PACKET RADIO NETWORK, (ADVANCED RESEARCH PROJECTS

AGENCY ARE INTO CARACTERIDA EL COMPTENTESCONCES INTO A PARTE AREE AREE AREA (ACANALES AREANT FACENCIA) AGENCY AREINGTON, VA), AFIPS CONFERENCE ARECERCINGS, VOLUME 44, 1975, NATIONAL COMPTENC CONFERENCE, (ANAHEIM, CA; MAY 19-22, 1975), AFIPS PRESS, MONTVALE, NJ, 1975, (LC 55-44701), P 177-180, 37 REFS

THE ALCHA SYSTEM EMERGED AS A SOLUTION TO ELIMINATING THE UNUSUALLY HIGH ERROR RATE ON THE LOCAL TELEPHONE LINES AT THE UNIVERSITY OF HAWAII. THE ALCHA SYSTEM SERVED AS A MODEL FOR THE DEVELOPMENT OF THE RADIONET DISCUSSED IN THIS ARTICLE. THE SYSTEM REQUIREMENTS AND STRUCTURE FOR PACKET RADIO TECHNOLOGY ARE DISCUSSED, THE AUTHOR DOES NOT EVADOE THE PRIVACY ISSUE WHICH RELIES ON ENCRYPTION. BECAUSE EVERY RECEIVER IN A RADIONET IS CAPABLE OF BEING A TRANSMITTER, AUTHORIDOF RECEIVER AND TRANSMITTER IS A NECESSITY. PERSONAL RADIO TECHNOLOGY. ARE ENVISIONED APPLICATIONS AREAS FOR PACKET RADIO TECHNOLOGY. (ALSO UNDER 3.2.I)

STEPHEN R., NETWORK PERFORMANCE, USER SATISFACTION, AND DATA BASE ACCESS, (USC-INFORMATION SCIENCES INST. KIMBLETON. MBLETON, STEPHEN R., NETWORK PERFORMANCE, USER SATISFACTION, AND DATA BASE ACCESS, (USC-INFORMATION SCIENCES INST., MARINA LEL REY, CA); NATIONAL TELECOMMUNICATIONS CONFERENCE, CONFERENCE RECORD, VOLUME 2, (NEW ORLEANS, LA, DECEMBER 1-3, 1975), INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YORK, 1975, IEEE 7S-CH-I015-7-CSCB, (LC 57-20724), P 44-12-44-17, IS REFS (ANOTATION UNDER 2-3)

KUO, FRANKLIN F., THE ALOHA BROADCAST PACKET COMMUNICATIONS SYSTEM.(PRESENTED AT THE, NORTHWEST 74, CIPS-ACM PACIFIC REGIONAL SYMPOSIUM, VANCOUVER, (CANADA), MAY 23-24, 1974), (TAWAII, UNIV. OF, HONDLULU, ALOHA SYSTEM), GELENBE, EROL, ROBERT MAML, COMPUTER ARCHITECTURES AND NETWORKS, MODELLING AND EVALUATION, (AUGUST 12-14, 1974), AMERICAN ELSEVIER PUBLISHING CO. INC., NEW YORK, 1974, (LC 74-83728), P 275-283, 12 REFS

HERE IS ANOTHER GENERAL OVERVIEW OESCRIBING IMPORTANCE OF PACKET COMMUNICATIONS TO COMPUTER-COMMUNICATION NETWORKS. It oiscusses what packet broadcasting is and gives a defailed description of the Aldha packet radio network as an Illustration, finally it wentions some present efforts on packet satellite systems.

AVIA, ANTHONY, ERIC G. MANNING, PERTURBATION TECHNIQUES FOR TOPOLOGICAL OPTIMIZATION OF COMPUTER NETWORK AS AN (WAITERLOG, UNIV, OF, ONTARIO, (CANADA), COMPUTER COMMUNICATIONS NETWORKS GROUP), FOURTH OATA COMMUNICATIONS SYMPOSIUM, NETWORK STRUCTURES IN AN EVOLVING OPERATIONAL ENVIRONMENT, (DUEBEC CITY, (CANADA), OCTOBER 7-9, 1975), INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YORK, 1975, LEEE 75-CH1000I-7-DATA, P (ANNOTATION UNDER 2.1.2)

MANNING, ERIC, A HOMOGENEOUS NETWORK FOR OATA SHARING, (WATERLOO, UNIV. DF, ONTARIO, (CANADA), OEPT, OF APPLIED ANALYSIS AND COMPUTER SCIENCE), GELENGE. EROL, ROBERT MAHL, COMPUTER ARCHITECTURES AND NETWORKS, MODELLING AND EVALUATION, (AUGUST 12-14, 1974), AMERICAN ELSEVIER PUBLISHING CO. INC., NEW YORK, 1974, (LC 74-B372B), P 345-353, 9 REFS

THE MAJOR IDEAS INTRODUCED HERE ARE THOSE OF REAL AND VIRTUAL NETWORK ADDRESS SPACES, AND THE EXCLUSIVE USE OF MESSAGE SWITCHING IN BOTH THE COMMUNICATIONS SUBNETWORK AND THE HOST OPERATING SYSTEM. A CORE-TO-CORE MESSAGE TRANSFER ALGORITHM, USING VIRTUAL ADDRESSES FOR PRELIMINARY PROTOCOL AND REAL ADDRESSES FOR ACTUAL OATA TRANSMISSION, ILLUSTRATES THE UTILITY OF THESE IDEAS. THE AUTHOR STATES THAT THESE IDEAS PROVIDE A SIMPLE UNIFORM PRIMITIVE STRUCTURE TO ALLOW EXCHANGE OF MESSAGE SEGMENTS BETWEEN TASKS IN SINGLE OR MULTIPLE HOSTS. (ALSO UNDER 2.1.2)

MARTIN, JAMES T., SYSTEMS ANALYSIS FOR OATA TRANSMISSION, INTERNATIONAL BUSINESS MACHINES CORP., SYSTEMS RESEARCH INST., PRENTICE-HALL INC., ENGLEWOOD CLIFFS, NJ, 1972, PRENTICE HALL SERIES IN AUTOMATIC COMPUTATION, (LC 75-37761), 909P (ANNOTATION UNDER 1.3)

MCOONALO, MILO, HARRY RUOIN, NOTE ON INHERENT AND IMPOSED PRIDRITIES IN PACKET SWITCHING, (INTERNATIONAL BUSINESS MACHINES COPP., BOEBLINGEN, (GERMANY), INTERNATIONAL BUSINESS MACHINES COPP., RUSCHLIKON, (SWITZERLAND), ZURICH RESEARCH 1 48 . 1

IEEE TRANSACTIONS ON COMMUNICATIONS. VOL COM-22. ISSUE 10. OCT 74. P 1678-1681. 6 REFS

IT HAS BEEN OBSERVED THAT THE MECHANISM OF TRANSMITTING A SINGLE MESSAGE AS A SERIES OF (POSSIBLY NONCONTIGUOUS) PACKETS INTRODUCES AN EFFECTIVE PRIORITY WHICH FAVORS SHORT OVER LONG MESSAGES. THIS PAPER ADORESSES THE OUESTION, HOW STRONG IS THIS EFFECTIVE PRIORITY? THE ANALYSIS PRESENTED IS BASED ON SIMULATION. (ALSO UNDER 2+1+1)

OSSANNA, JOSEPH F., IDENTIFYING TERMINALS IN TERMINAL-ORIENTED SYSTEMS, (BELL TELEPHONE LABS, INC., MURRAY HILL, NJ), JACKSON, PETER E., PROCEEDINGS, ACM/IEEE SECOND SYMPOSIUM ON PROBLEMS IN THE OPTIMIZATION OF DATA COMMUNICATION SYSTEMS, (PALD ALTO, CA, OCTOBER 20-22, 1971), 1971, IEEE CAT-71C50-C, P 148-152, 9 REFS

AN AUTOMATIC TERMINAL RECOGNITION ALGORITHM IS PRESENTED. TERMINAL PROPERTIES THAT PERMIT UNIQUE IDENTIFICATION ARE DISCUSSED AND AN ALGORITHM IS DESCRIBED WHICH ALLOWS AUTOMATIC RECOGNITION EITHER WHEN A TERMINAL IS CONNECTED (IF IT SPONTANEDUSLY SENDS A CHARACTER) DR AFTER THE USER SENDS A CHARACTER. THE LOW DRORE BITS OF THIS FIRST CHARACTER ARE USED FOR AUTOMATIC SPEED RECOGNITION AND THE REMAINING BITS CAN BE USED TO IDENTIFY OTHER PROPERTIES OF THE TERMINAL AS REDUIRED BY THE SYSTEM DESIGNER.

PAN, GEORGE S., CONFIGURATION OF AN EFFICIENT DATA COMMUNICATION SYSTEM, (SYSTEMS ARCHITECTS INC., RANDOLPH, MA), TELECOMMUNICATIONS, VOL 6, ISSUE 6, JUN 72, P 43-44, 48, 50, 52, 70

THE PROBLEMS OF COMMUNICATION SYSTEM PLANNING AND COST MINIMIZATION ARE ADDRESSED. GENERAL CONCEPTS AND A CHECKLIST OF RELEVANT CONSIDERATIONS ARE PRESENTED. BUT SPECIFIC TECHNIQUES ARE NOT DESCRIBED IN DETAIL.

PRICE, W. L., DESIGN OF DATA COMMUNICATION NETWORKS USING SIMULATION TECHNIQUES.(PRESENTED AT. NETWORK DESIGN SYMPDSIUM, EDINBURGH, (SCOTLAND), MARCH 18, 1974), (NATIONAL PHYSICAL LAB., TEODINGTON, (ENGLAND)), COMPUTER AIDED DESIGN, VQL 6, ISSUE 3, JUL 74, PIT3-IT5, 21 REFS

THE CHARACTERISTICS OF PACKET SWITCHING DATA COMMUNICATION NETWORKS ARE BRIEFLY DISCUSSED AND TECHNIQUES OF THE USE OF SINULATION AS A DESIGN TOOL ARE DUTLINED. THE DESIGN OF DATA COMMUNICATION NETWORKS IN GENERAL IS NOT DISCUSSED. (ALSO UNDER 2+1+3)

3.2.2 SYSTEM DESIGN

RAYMOND, R. C., D. J. MCKEE, A DESIGN MODEL FOR TELEPROCESSING SYSTEMS, (GENERAL ELECTRIC CO., BETHESDA, MD), DATA NETWORKS: ANALYSIS AND DESIGN. THIRO DATA COMMUNICATIONS SYMPOSIUM. (ST. PETERSBURG, FL. NOVEMBER 13-15, 1973), Institute of Electrical and electronics engineers inc., New York. 1973, IEEE (N-73-CH082B-4G, P 131-140

THE ARTICLE DESCRIBES A MODEL. IN THE FORM OF A COMPUTER PROGRAM AND ASSOCIATED DATA BASES. CAPABLE OF DESIGNING A TELEPROCESSING SYSTEM TO MEET GIVEN LOAD PEDUIREMENTS. THE CUMPERT VERSION ACCEPTS UP TO 12D CITIES (2D MAY BE DUTSIDE THE UNITED STATES) AND CENTRAL SWITCHING AND DATA PROCESSING MAY BE PROVIDED IN UP TO 2D COMPUTING CENTERS LOCATED AT ARBITRARILY CHOSEN CITIES OF THE SYSTEM. THE MODEL IS SUITABLE FOR EXPLORATION DO SYSTEM COSTS AND DESI FEATURES, CENTER LOCATIONS, TYPES AND AMOUNTS OF WORK PROCESSED, COMMON CARRIER TARIFFS, REDUNDANCY REDUIREMENTS, AND OTHER VARIABLES. OESIGN

RCSNER, ROY DANIEL, LARGE SCALE NETWORK DESIGN CONSIDERATIONS. (DEFENSE COMMUNICATIONS AGENCY, RESTON, VA). The second international conference on computer communication. Communer communication today and up to 1985, (stockholm, (sweden), august 12-14, 1974), international council of iccc, 1974, p 189-197, 9 Refs

DESIGN ALTERNATIVES FOR THE DEFENSE COMMUNICATIONS SYSTEM ARE DISCUSSED, TO PROVIDE DUANTIFICATION OF NETWORK STRUCTURES, A COMPARISON ON THE BASIS OF CHANNELS, CHANNEL MILES AND NETWORK DELAY IS PERFORMED, COMPARISONS OF DIFFERENT NETWORK TOPOLOGIES AND STRUCTURES ARE MADE USING AN ANALYTIC NETWORK SYNTHESIS PROGRAM. THE RESULTS ARE PLOTTED TO DETERMINE THE DFINAL CONFIGURATION.

SCANTLEBURY, R. A., A MODEL FOR THE LOCAL AREA OF A DATA COMMUNICATION NETWORK--DBJECTIVES AND HARDWARE DRGANIZATION, NATIONAL PHYSICAL LA8., TEODINTON, (ENGLAND), DIV. OF COMPUTER SCIENCE, DCT 69, NPL-DCS CDM-SCI-T.M.29, 17P, ID REFS (ANNCTATION UNDER 3.1.1)

WAAL, PETER C., DIGITAL TELEMETRY IN NETWORK CONTROL. (APPLIED DATA RESEARCH INC.). EASCON '75 RECORD. IEEE ELECTRONICS AND AEROSPACE SYSTEMS CONFERENCE, (WASHINGTON, DC, SEPTEMBER 29-DCTDBER 1, 1975), INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YORK, 1975, IEEE 7S-CH0-99B-S-EASCDN, (LC 73-2277), P 122-A--122-D

TELEMETRY TECHNIQUES ARE PROPOSED FOR EFFECTIVE CENTRALIZED CONTROL BY NETWORKS. ANALOG, DIGITAL AND HYBRID TECHNIQUES ARE DISCUSSED AND THEN THE HARDWARE AND SOFTWARE CONSIDERATIONS FOR IMPLEMENTING THE CONTROL SYSTEM ARE DESCRIBED. AN EXTENSIVE BACK-UP PROCEDURE IN THE EVENT OF POWER FAILURE IS PROPOSED.

- CKER, STUART, A DESIGN FOR A MULTIPLE PROCESSOR OPERATING ENVIRONMENT, (DIGITAL EDUIPMENT CORP., MAYNARD, MA), COMPCON 73 SEVENTH ANNUAL IEEE COMPUTER SOCIETY INTERNATIONAL COMFERENCE. DIGEST OF PAPERS, "COMPUTING NETWORKS FROM MINIS THRCUGH MAXIS -- ARE THEY FOR REAL?", (SAN FRANCISCO, CA, FEBRUARY 27-28, MARCH 1, 1973), INSTITUTE OF ELECTRICAL AND ELECTRONIC ENCINEERS INC., NEW YORK, 1973, (LC 68-1628), P 143-146, 14 REFS (ANNOTATION UNDER 3.4.D)
- WHITNEY, V. KEVIN M., DIXDN R. OOLL. A DATABASE SYSTEM FOR THE MANAGEMENT AND DESIGN DF TELECOMMUNICATION NETWORKS, Data networks: Analysis and design. Third data communications symposium, gs. petersburg, fl. november 13-15, 1973, Institute of Electronics engineers inc., new york. 1973. IEEE CN-73-CH022B-4C, p 141-147, 12 Refs

A COMPUTER SYSTEM BUILT UPON A RELATIONAL DATA BASE COMPRISED OF SETS OF DATA DESCRIBING NETWORK TERMINALS, COMMUNICATIONS CHANNELS, AND TRAFFIC IS DESCRIBED. THE SYSTEM IS INTENDED TO AID IN THE DESIGN AND MANAGEMENT OF TELECOMMUNICATION NETWORKS. ALL SYSTEM FACILITIES MAY BE USED EITHER INTERACTIVELY DR IN A BATCHED MODE FOR A WIDE VARIETY OF NETWORK MANAGEMENT TASKS SUCH AS THE DESIGN OF NEW NETWORKS, THE MODIFICATION OF EXPANSION OF EXISTING NAUTHEPTARATION OF REPORTS ON NETWORK COST AND PERFORMANCE.

WILKINSON, P. T., A MODEL FOR THE LOCAL AREA OF A DATA COMMUNICATION NETWORK--SDFTWARE ORGANIZATION, NATIONAL PHYSICAL LAB., TEDDINGTON, (ENGLAND), DIV. OF COMPUTER SCIENCE, DCT 69, NPL-OCS COM-SCI-T.N.29, 2DP, 6 REFS (ANNOTATION UNDER 3.1.1)

3.2.3 HARCWARE COMPONENTS

- ABRAMSON, NORMAN, PACKET SWITCHING #ITH SATELLITES, HAWAII, UNIV. DF, HONDLULU, ALDHA SYSTEM, MAR 73, HU B73-2, NASA NA52-670D, AF F4462D-69-(-0D3D, DNR NOD014-70-(-Da14. 24P, 20 REFS (ANNOTATION UNDER 3.2.1)
- EARAN, PAUL, DN DISTRIBUTED COMMUNICATIONS: VIII. THE MULTIPLEXING STATICN, RAND CORP., SANTA MONICA, CA, AUG 64, RC RM-3764-PR, AF 49(638)-70D, (AD-444 831), 103P, 3 REFS

THIS REPORT PRESENTS THE DESIGN OF A MULTIPLEXER THAT INTERFACES BOTH TELETYPEWRITER AND SYNCHRONOUS CIRCUITS TO A DISTRIBUTED MESSAGE-SWITCHED NETWORK, A CORE PLUS DRUM MACHINE IS PROPOSED WITH A PUSH-BUTTON MANUAL SIGNALING SCHEME FOR MESSAGE ADDRESSING.

CHU, WESLEY W., ASYNCHRONDUS TIME-DIVISION MULTIPLEXING SYSTEMS, (CALIFORNIA, UNIV, DF, LDS ANGELES, DEPT, DF COMPUTER

SCIENCE), ABRAMSON, NORMAN, FRANKLIN F. KUD, COMPUTER-COMMUNICATION NETWORKS, PRENTICE-HALL INC., ENGLEWOOD CLIFFS, NJ, 1973, COMPUTER APPLICATIONS IN ELECTRICAL ENGINEERING SERIES, (TKS102.5.4283), P 237-268, 30 REFS (ANNOTATICN UNDER 2.1.2)

U, WESLEY W., OYNAMIC BUFFER HANAGEMENT FOR COMPUTER COMMUNICATIONS. (CALIFORNIA, UNIV. OF, LOS ANGELES), DATA NETWORKS: ANALYSIS AND DESIGN. THIRD DATA COMMUNICATIONS SYMPOSIUM, (ST. PETERSBURG, FL. NOVEMBER 13-15, 1973), INSTITUTE OF ELECTRICAL AND ELECTRONICES ENSIMERES INC., NEW YORK, 1973, IEEE (NT-33-CHOB2B-4C, P 68-72, 7 REFS CHU.

A DYNAMIC BUFFER MANAGEMENT SYSTEM FOR COMPUTER COMMUNICATIONS THAT UTILIZES VIRTUAL ADDRESS CONCEPTS IS PRESENTED. THE SYSTEM PROVIDES FLEXIBILITY AS WELL AS EFFICIENCY IN UTILIZATION DF BUFFER SPACE. AN ESTIMATION OF REQUIRED BUFFER SIZE AND STRATEGIES FOR HANALING BUFFER DYERFLOW ARE DESCRIBED. METHODS FOR ALLOCATING BUFFER RESOURCES AMONG THE SET OF BUFFER DUTPUTS ARE DISCUSSED. THE DYNAMIC BUFFER MANAGEMENT DESCRIBED HAS BEEN SUCCESSFULLY IMPLEMENTED IN THE STATISTICAL DEMULTIPLEXOR CONSTRUCTED AT UCLA.

FRALICK, STANLEY C., DAVID H. BRANDIN, FRANKLIN F. KUD, CHRISTOPHER HARRISDN, DIGITAL TERMINALS FOR PACKET BROADCASTING, (STANFORD RESEARCH INST., CA, HAWAII, UNIV. OF, HONDLULU), AFIDS CONFERENCE PROCEEDINGS, VOLUME 44, 1975, NATIONAL COMPUTER CONFERENCE, (ANAHEIM, CA, MAY 19-22, 1975), AFIPS PRESS, MONTVALE, NJ, 1975, (LC SS-44701), P 253-261, 11 REFS

RADID COMMUNICATIONS, NETWORK ACCESS AND CENTRAL LOGIC, AND INPUT/DUTPUT ARE THE THREE FUNCTIONS OF A RADID TERMINAL. EVEN THOUGH THESE FUNCTIONS ARE MORE COMPLEX THAN THOSE NORMALLY PERFORMED BY A TERMINAL, THERE IS AN ADDITIONAL CONCERN TO MAKE RADID TERMINALS OF A PERSONAL LIGHTWEIGHT SIZE, I.E., SUITCASE TERMINALS, DESCRIPTION OF THE HARDWARE AND SOFTWARE REQUIRED FOR THESE TERMINALS IS GIVEN.

FRALICK, STANLEY C., JAMES C. GARRETT. TECHNOLOGICAL CONSIGERATIONS FOR PACKET RADID NETWORKS. (STANFORD RESEARCH INST., NENLD PARK, CA. ROCKWELL INTERNATIONAL. RICHAROSON. TX). AFIPS CONFERENCE PROCEEDINGS. VOLUME 44, 1975. NATIONAL CONFUTER CONFERENCE, (ANAHEIM, CA. MAY 19-22, 1975), AFIPS PRESS, MONTVALE, NJ, 1975. (LC SS-44701), P 233-243, I3 REFS JAMES C. GARRETT. TECHNOLOGICAL CONSIDERATIONS FOR PACKET RADIO NETWORKS. (STANFORD RESEARCH

THE THREE PRIMARY ELEMENTS OF A PACKET RADID NETWORK ARE THE TERMINAL, STATION, AND REPEATER. THE USER'S INTERFACE TO THE NETWORK IS THE TERMINAL. THE STATION HAS THE RESPONSIBILITY OF THE OVER-ALL MANAGEMENT OF THE NETWORK INCLUDING INITIALIZATION, ROUTING, FLOW CONTROL, DIRECTORY AND ACCOUNTING FUNCTIONS. NETWORKS OVER A SMALL AREA REGUIRE ONLY THESE TWO ELEMENTS: BUT FOR EXTENDED AREAS, REPEATERS ARE NECESSARY. THE REPEATER RECEIVES AND RETRANSHITS PACKETS, DETECTS ERRORS AND PERFORMS ROUTING FUNCTIONS. THE AUTHORS DESCRIBE AN EXPERIMENTAL REPEATER AND DISCUSS RADIO FREQUENCY CHANNEL LIMITATIONS... THE THREE PRIMARY ELEMENTS OF A PACKET RADID NETWORK ARE THE TERMINAL, STATION, AND REPEATER. THE USER'S INTERFACE TO

♥CGREGOR, PATRICK, EFFECTIVE USE OF OATA COMMUNICATIONS HAROWARE, (NETWORK ANALYSIS CORP., QLN COVE, NY), AFIPS CONFERENCE PROCEEDINGS, VOLUME 43, 1974. NATIONAL COMPUTER COMFERENCE, (CHICAGO, 1L, MAY 6-1D, 1974), AFIPS PRESS. NONTVALE, NJ. 1974, AFIPS CONFERENCE PROCEEDINGS, (LC SS-44701), P 56S-S7S, 31 REFS

THE COST, RELIABILITY, PERFORMANCE, AND FLEXIBILITY OF HARDWARE IN DATA COMMUNICATIONS NETWORKS ARE ADDRESSED IN THIS THE CUST, RELIABLITT PERFORMANCE AND FLEATDILTT OF DADWANT IN UNA REPART OF THOMAS ARE ADDRESSED IN THIS ARTICLE. IN THE COST SECTION MODEN SHARING UNITS, NULTIPLEXERS, CONCENTRATORS, BIPLEXERS, PORT SHARING UNITS AND FRONT END PROCESSORS ARE ALL BRIEFLY DISCUSSED ALONG WITH TYPICAL CCSTS INCURRED AND POTENTIAL ECONONY. RELIABILITY IS VIEWED FROM TWO ANGLES: THE EXPECTED PER CENT TIME A TERMINAL CANNOT CONNECT WITH THE CPU, AND THE EXPECTED PER CENT TIME AN ENTIRE OFFICE CANNOT. PERFORMANCE IS MEASURED IN TERMS OF TERMINAL RESPONSE TIME. FLEXIBILITY DEALS WITH GROWTH TO HANDLE MORE 3.2.3 HAROWARE COMPONENTS

TERMINALS AND HEAVIER TRAFFIC, AND TO HANDLE A BROADER VARIETY DF TERMINALS, The author has accomplished his goal of a functional approach to the effective use of data communications hardware.

EHRSON, DAVID L., INTERFACING AND DATA CONCENTRATION, (CALIFORNIA, UNIV, OF, LIVERMORE), ABRAMSON, NORMAN, FRANKLIN F. KUO, COMPUTER-COMMUNICATION NETWORKS, PRENTICE-HALL INC., ENGLEWDOO CLIFFS, NJ, 1973, COMPUTER APPLICATIONS IN ELECTRICAL ENGINEERING SERIES, (TKS102.S.A283I, P 197-236, 7 REFS (ANNOTATION UNDER 1.3) PEHRSON, DAVID L., INTERFACING AND DATA CONCENTRATION.

SCANTLEBURY, R, A., A MODEL FOR THE LOCAL AREA OF A DATA COMMUNICATION NETWORK--OBJECTIVES AND HAROWARE ORGANIZATION, NATIONAL PHYSICAL LAB, TEODINGTON, (ENGLANDI, DIV. OF COMPUTER SCIENCE, OCT 69, NPL-OCS COM-SCI-T.M.29, I7P, IO (ANNOTATION UNDER 3.1.1)

IMASAKI, NOBUMIKO, TDFRU KOHASHI, KOHEI HABARA, YASUNOBU SUZUKI.A COMPATIBLE MULTIPLEXING TECHNIQUE FOR ANISOCHRONOUS AND ISOCHRONOUS OIGITAL DATA TRAFFIC, (NIPPON ELECTRIC CO. LTO., TOKYO, (JAPAN), NIPPON TELEGPAPH AND TELEPPONE PUBLIC CORP., MUSASHINO, (JAPAN), RESEARCH AND GVELDPMENT BUREAU, NIPPON TELEGPAPH AND TELEGPAPH AND CORP., MUSASHINO, (JAPAN), MUSASHINO ELECTRICAL COMMUNICATION LABH., SIPPOSIUM, (ST. PETERSBURG, FL. NOVEMBER IS-IS, 1973), OATA NETMORKS: ANALYSIS AND DESIGN. THIPO DATA COMMUNICATION SYMPOSIUM, (ST. PETERSBURG, FL. NOVEMBER IS-IS, 1973), INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YORK, 1973, IEEE CN-73-CHOB28-4C, P S9-67, IZ REPS SHIMASAKI, NOBUHIKO,

THIS PAPER REPORTS THE RESULTS OF A STUDY DA A MULTIPLEXING SCHEME FOR DIGITAL DATA TRANSMISSION AND SWITCHING WHICH CAN HANDLE BOTH ANISOCHRONOUS AND ISDCHRONOUS DATA TRAFFIC OF VARIOUS MIXES. THE STUDY WAS DESIGNED TO DETERMINE A UNIFIED SCHEME, BOTH ECONMICAL AND FLEXIBLE, FOR INTER-CITY HEAVY TRAFFIC DATA LINKS IN THE DOMESTIC DIGITAL DATA NETWORK, VARIOUS MULTIPLEXING SCHEMES ARE DESCRIBED AND THEIR FEATURES ANALYZED.

DEOLEWSKI, J. S., PROGRAMMABLE COMMUNICATION PROCESSORS, (WASHINGTON, STATE UNIV. OF, PULLMAN), WINKLER, STANLEY, COMPUTER COMMUNICATIONS: IMPACTS AND IMPLEMENTATION, THE FIRST INTERNATIONAL CONFERENCE ON COMPUTER COMMUNICATION, (WASHINGTON, OC, OCTOBER 24-26, 1972], INTERNATIONAL CONFERENCES ON COMPUTEP COMMUNICATION, 1972, ICCC 72-CHC-690-BC, NSF GJ-33239, P 340-389, IS REFS SOBOLEWSKI.

VARIOUS ASPECTS OF MINICOMPUTERS USED AS COMMUNICATION PROCESSORS ARE DESCRIBED. THE CONCEPTS OF CONCENTRATORS, COMMUNICATIONS CONTROLLERS, AND MESSAGE SWITCHERS ARE SUMMARIZED AND THE USE OF MINICOMPUTERS IN THESE ROLES IS OISCUSSED.

THE COMMUNICATIONS MINICOMPUTER. E COMMUNICATIONS MINICOMPUTER. (TELECOMMUNICATIONS, DEOMAM, MAI, TELECOMMUNICATIONS, VDL 6, ISSUE 10, OCT 72, P 15-16, 18, 20, 22

THIS SURVEY IS USEFUL AS A GUIDE TO MINICOMPUTER SELECTION FOR USE IN GATA COMMUNICATIONS NETWORKS. AFTER A BRIEF INTRODUCTION TO THE CONCEPTS OF FRONT END PROCESSING. INTELLIGENT TERMINALS, MESSAGE SWITCHERS, AND CONCENTRATORS, A FACTUAL ONE LINE PER ENTRY SUMMARY IS PRESENTED ON MINICOMPUTERS SURVEYED THAT ARE USED IN THESE RDLES. (ALSO UNDER 1.21

ZAFIROPULO, PITRO, FLEXIBLE MULTIPLEXING FOR NETWORKS SUPPORTING LINE-SWITCHED AND PACKET-SWITCHED DATA TRAFFIC, (INTERNATIONAL BUSINESS MACHINES CORP., RUSCHLIKON, (SWITZERLAND)), THE SECOND INTERNATIONAL COMFERENCE ON COMPUTER COMMUNICATION, COMPUTER COMMUNICATION TDDAY AND UP TO 1985, (STOCKHOLM, (SWEDEN), AUGUST 12-14, 1974I, INTERNATIONAL COUNCIL OF ICCC, 1974, P 517-523, 7 REFS

THE USE OF MULTIPLEXER/DEMULTIPLEXER PAIRS IS PROPOSED FOR THE INTEGRATION OF LINE-SWITCHED AND PACKET-SWITCHED TRAFFIC ON A SINGLE LINE OR TRUNK. SYNCHRONIZATION AND SIGNALLING BETWEEN THESE PAIRS IS DISCUSSED IN ADDITION TO THE IMPACT OF THE NEEDED CONTROL CONFIGURATION ON SIGNALLING PROTOCOLS.

3.2.9 OTHER

BEERE, MAX P., THE ECONOMICS OF NEW INFORMATION NETWORKS. (PACKET COMMUNICATIONS INC., WALTHAM, MAI, HALL, ARTHUR O., III. DIGEST OF THE CONFERENCE ON THE ECONOMIES OF SCALE IN TODAY'S TELECOMMUNICATIONS SYSTEMS, (WASHINGTON, OC. SEPTEMBER I3, 1973), INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YORK, 1973, IEE 73-CHO-B30-0-SCALE, P 36-38.4 REFS

THE EVILUTION OF VALUE ACCEO NETWORKS (VANSI IS TRACED, AND THE TYPES OF SERVICES AND KINDS OF COST STRUCTURES ASSOCIATED WITH VANS ARE DISCUSSED. THE APPROACHES OF TYMNET, ARPA, AND PACKET COMMUNICATIONS INC, ARE BRIEFLY (ALSO UNCER S-31

NUSHAN, ABMAY K., ROBERT H. STOTZ, PROCEOURES AND STANDAROS FOR INTEP-CDMPUTER CDMMUNICATIONS, (MASSACHUSETTS INST. OF TECH., CAMBRIDGE, ELECTRONICS SYSTEMS LAB.), AFIPS PROCEEDINGS. 1968 SPRING JCINT COMPUTEP COMFERENCE. VOLUME 32, (ATLANTIC CITY, NJ, APPIL 30-MAY 2, 1968), THOMPSON BOOK CO., WASHINGTON, DC. 1968, AFIPS COMFERENCE PROCEEDINGS, (LC SS-44701), P 95-104, 24 REFS (ANDTATICN UNDER 3.5.1) BHUSHAN. ABHAY K ...

BIRKE, DENNIS M., STATE-TRANSITION PROGRAMMING TECHNIQUES AND THEIR USE IN PRODUCING TELEPROCESSING DEVICE CONTROL PROGRAMS, (PITTSBURGH, UNIV. OF, PA, COMPUTER CENTERI, JACKSGN, PETER E., PROCEEDINGS, A KOWIECE SECONO SYMPOSIUM ON PROBLEMS IN THE OPTIMIZATION OF DATA COMMUNICATION SYSTEMS, (PALO ALTG, CA, OCTOBER 20-22, 1971), 1971, IEEE CAT-71CS9-C, P 21-31, B REFS

THE USE OF STATE-TRANSITION TECHNIQUES IN WRITING PROGRAMS FOP COMPLEX, TIMING DEPENDENT PROCESSES, E.G., Teleprocessing device control programs, is described. It is shown how these techniques may contribute to simplifying The definition, implementations, and debugging of control programs.

CHU, WESLEY W., DEMULTIPLEXING CONSIDERATIONS FOR STATISTICAL MULTIPLEXORS, (CALIFORNIA, UNIV. OF, LDS ANGELES, OEPT, OF COMPUTER SCIENCE), JACKSCN, PETER E., PROCEEDINGS, ACM/IEEE SECOND SYMPOSIUM ON PROBLEMS IN THE OPTIMIZATION OF DATA COMMUNICATION SYSTEMS, (PALD ALTO, CA. OCTOBER 20-22, 19711, 1971, IEEE CAT-71CS9-C, P 32-38, 7 REFS

SOME VERY USEFUL INFORMATION IS PROVIDED FOR THE DESIGN OF STATISTICAL MULTIPLEXERS ABOUT BEHAVIOR OF THE DEMULTIPLEXER (REASSEMBLY) BUFFERS, THE RELATIONSHIPS AMDMG BUFFER OVERFLOW PROBABILITY, BUFFER SIZE, TRAFFIC VOLUME, AVERAGE MESSAGE LENSTH, AND MESSAGE DESTINATION ARE ANALYZED. (ALSO UNDER 2.1.21

HALL, ARTHUR 0., III, AN OVERVIEW OF ECONOMIES OF SCALE IN EXISTING COMMUNICATIONS SYSTEMS, (HALL (ARTHUR 0,) INC., PCRT DEPOSIT, MDI, HALL, ARTHUR O,, 111, DIGEST DF THE CONFERENCE ON THE ECONOMIES OF SCALE IN TODAY'S TELECOMMUNICATIONS SYSTEMS, (WASHINGTON, OC, SEPTEMBER 13, 1973), INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YORK, 1973, IEEE 73-CHO-B30-0-SCALE, P S-17, 9 REFS

AS AN INTRODUCTION TO OTHER PAPERS FROM THIS WORKSHOP, THE AUTHOR GIVES A BASIC CEFINITION OF 'ECONOMIES DF SCALE' IN TELECOMMUNICATIONS AND BASIC CONCEPTS RELATING TO THE CEFINITION. HE DESCRIBES SOME OF THE WORK COMPLETED IN THE PAST AND GIVES GENERAL INFORMATION ON COMMUNICATION SERVICES AND DETWORKS, COST CONCEPTS AND MEASURES OF SCALE, THE PHYSICAL BASES OF ECONOMIES AND DISECONOMIES OF SCALF IN COMMUNICATION SYSTEMS AND THE MUAN BASES FOR COMMUNICATION SYSTEM ECONOMY.

HIROTA, KEN'ICHIRO, PUBLIC TELEPHONE NETWORK AND COMPUTER-COMMUNICATION. INIPPON TELEGRAPH AND TELEPHONE PUBLIC CORP.,

TORYO, IJAPANI), WINKLER, STANLEY, COMPUTER COMMUNICATIONS: IMPACTS AND IMPLEMENTATION. THE FIRST INTERNATIONAL CONFERENCE ON COMPUTER COMMUNICATION, (WASHINGTON, OC, OCTOBER 24-26, I972), INTERNATIONAL CONFERENCES ON COMPUTER COMMUNICATION, 1972, ICCC 72-CHC-690-BC, NSF GJ-33239, P 267-271

THE PUBLIC TELEPHONE NETWORK IN JAPAN IS DESCRIBED, EMPMASIZING ITS USE FOR DATA COMMUNICATION. CALCULATION SERVICE CALLED *DIALS* AVAILABLE THROUGH THE TELEPHONE NETWORK IS BRIEFLY DESCRIBED.

KLEINROCK, LEONARO, SIMON S. LAM. PACKET-SWITCHING IN A SLOTTED SATELLITE CHANNEL. (CALIFORNIA, UNIV, OF, LOS ANGELESI EINMOLA, LEONARDU SIMON 3: LAM, FALRETSHITCHING IN A SLUTTED SHIELLITE CHANNEL, (CALIFURNIA, UNIV, UF, LUS ANGLE AFIPS CONFERENCE PROCEEDINGS, VOLUME 42; 1973, NATIONAL COMPUTER CONFERENCE AND EXPOSITION, (NEW YORK, NV, JUNE 4-8, 1973), AFIPS PRESS, MONTVALE, NJ, 1973, AFIPS CONFERENCE FROCEEDINGS, (LC SS-447011, P 703-710, 13 REFS (ANNOTATION UNDER 2.1)

MANNING, ERIC G., NEWHALL LOOPS AND PROGRAMMABLE TOM TWO FACETS OF CANADIAN RESEARCH IN COMPUTER COMMUNICATIONS,

3.2.9 DTHER

(WATERLDO, UNIV. DF. (CANADA)).

(WATERLOG, NUIV, DF, (CANADA)), WINKLER, STALEY, COMPUTER COMMUNICATIONS: IMPACTS ANO IMPLEMENTATION, THE FIRST INTERNATIONAL CONFERENCE DN COMPUTER COMMUNICATION, (WASHINGTON, OC, DCTOBER 2A-26, 1972), INTERNATIONAL CDNFERENCES ON COMPUTER COMMUNICATION, 1972, ICCC 72-CHC-09-0BC, NSF 6J-33239, P 33B-342; 9 REFS

TWO CANADIAN RESEARCH PROPOSALS ARE PRESENTED. THESE ARE THE DEVELOPMENT OF THE NEMALL LOOP CONCEPT TO SERVE As the communications subnet interconnecting the switches of a distributed store-and-forward network and the Programmable time division multiplexing concept as a Method of Dynamically Varying the Bandwigth Assiched to data *CALLS* .

MCCARN, DAVIS B., THE COMMUNICATIONS JUNGLE AS SEEN BY THE USER. (NATIONAL LIBRARY DF MEDICINE, BETHESDA, MO), PROCEEDINGS OF THE 197A SYMPOSIUM, COMPUTER NETWORKS: TRENDS AND APPLICATIONS. (GAITHERSBURG, MO, MAY 23,)97A), INSTITUTE OF ELECTROILS ENGINEES INC., NEW YORK, 1974, TACHOBSS-9C, P 7-8, I REFS

MEDLINE (MEDICAL LITERATURE ANALYSIS AND RETRIEVAL SYSTEM ON-LINE) PROVIDES ON-LINE BIBLIOGRAPHIC RETRIEVAL SERVICES TO USERS VIA SEVERAL EXISTING COMPUTER NETWORKS. OUE PRIMARLLY TO THE NUMBER OF PATH ELEMENTS BETWEEN THE TYPICAL USER AND THE SYSTEM, AND THE SIGNAL CONVERSION WHICH TAKES PLACE BETWEEN EACH PATH ELEMENT, COMMUNICATIONS SERVICES REVIES REVIEWS RELATED PROBLEMS COMPRISE ABOUT THREE QUARTERS OF MEDLINE USER DIFFICULTIES. THIS SHORT ARTICLE HIGHLIGHTS A FEW EXAMPLES OF COMMUNICATIONS PROBLEMS WHICH HAVE DECURRED WITH HEDLINE TO LILUSTRATE THE RANGE OF PROBLEMS WHICH HAVE COMPRONTED ONE THE COMMUNICATIONS USER

O'SULLIVAN, THOMAS C., SHADOW TELEPHONE NETWORKS FOR TIME-SHARING TERMINALS, (RAYTHEON CO., SUDBURY, MA. DEPT. DE ADVANCED SYSTEMS), CDMPUTERS AND AUTDMATIDN, VOL IS, ISSUE IO, DCT 66, P 38-39

DESCRIBED IN THIS BRIEF ARTICLE IS THE RAYTHEON TERMINAL SWITCHING NETWORK WHICH ALLDWS A NUMBER OF TERMINALS TD ACCESS A VARIETY OF TIME-SHARING SYSTEMS THROUGH A SIMPLE PBX SWITCHBOARD, SEE O'SULLIVAN'S ARTICLE 'EXPLOITING THE IME-SHARING ENVIRONMENT' IN CATEGORY 3:1.2.

FORERTS, LAWRENCE G., DYNAMIC ALLOCATION OF SATELLITE CAPACITY THROUGH PACKET RESERVATION. (DEPARTMENT OF DEFENSE.

JBERTS, LAWRENCE G., DYNAMIC ALLOCATION OF SATELLITE CAPACITY THROUGH PACKET RESERVATION. (OEPARTMENT OF DEFENSE, ARLINGTON, VA). AFIPS CONFERENCE PROCEEDINGS, VOLUME 42, 1973, NATIONAL CCMPUTER CONFERENCE AND EXPOSITION, (NEW YDRK, NY, JUNE A-B, 1973), AFIPS PRESS, MONTVALE, NJ, 1973, AFIPS CONFERENCE PROCEEDINGS, (LC 55-AA701), P 711-716, IO REFS (ANNOTATION UNDER 2,114)

ROBERTS, LABRENCE G., DYNAMIC ALLOCATION OF SATELLITE CAPACITY THROUGH PACKET RESERVATION. (DEPARTMENT OF DEFENSE, ARLINGTON, VA. ADVANCED RESEARCH PROJECTS AGENCY). COMPUTER COMMUNICATION NETWORKS, SELECTED PAPERS, (PRESENTED AT, UNIV. OF SUSSEX, BRIGHTON, (ENGLAND),), 1973, P A1-AIS. IO REFS

(ANNDTATION UNDER 2.1.2)

3.3.1 INTERFACES

BARBER, D. L. A., EASING THE INTRODUCTION OF A PACKET SWITCHING SERVICE, NATIONAL PHYSICAL LAB,, TEODINGTON, (ENGLAND), DIV. OF COMPUTER SCIENCE, MAR 71, NPL-CSO COM-SCI-T.N.-S2, 20P

IT IS FROPOSED THAT NEW DATA NETWORKS BE GESIGNED WITH SOME COMPATIBILITY WITH EXISTING NETWORKS AND THAT EARLY AGREEMENT BE REACHED ON STANDARDS OF ALL TYPES. THEN THE REPORT GOES INTO DETAIL ON A PARTICULAR HARDWARE APPROACH FOR THE USER-NETWORK INTERFACE. A PHYSICAL BOX WITH BUTTONS AND LIGHTS IS GESCRIBED IN GETAIL AS THE SOLUTION TO BOTH FLOW CONTROL INTO THE NET AND SUCCESSFUL ESTABLISHMENT OF CONNECTIONS THROUGH THE NET. THE DISCUSSION IS OUITE GETAILEDA/ (ALSO UNDER S.S)

BARBER, O. L. A., EXPERIENCE WITH THE USE OF THE B.S. INTERFACE IN COMPUTER PERIPHERALS AND COMMUNICATION SYSTEMS, NATIONAL PHYSICAL LAB., TEODINGTON, (ENGLAND), OIV. OF COMPUTER SCIENCE, OCT 69, NPL-OCS COM-SCI-T.N.29, ISP, 9 REFS

EXPERIENCE WITH THE USE OF THE BRITISH STANDARD SPECIFICATION AA22 WHICH IS A *OIGITAL INPUT/OUTPUT INTERFACE FOR OATA COLLECTICN SYSTEMS' IS DESCRIBED. ITS APPLICATION WITH PERIPHERAL DEVICES, COMPUTER I/O BUSES, CONNECTIONS TO DIRECT STORE, AND, OF SPECIAL INTEREST, ITS USE IN THE NATIONAL PHYSICAL LABORATORY NETWORK ARE ALL DISCUSSED. (ALSO UNDER S.S)

BDUKNIGHT, N. J., G. R. GRCSSMAN, D. N. GRDTHE, THE ARPA NETWORK TERMINAL SYSTEM--A NEW APPROACH TO NETWORK ACCESS, (ILLINDIS, UNIV. OF, URBANA, CENTER FOR ADVANCEO COMPUTATION), DATA NETWCRS: ANALYSIS AND DESIGN. THIRO OATA COMMUNICATIONS SYMPOSIUM, (ST. PETERSBURG, FL. NOVEMBER 13-IS, 1973). INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YORK, 1973, IEEE CN-73-CH082B-4C, P 73-79, I7 REFS

THIS PAPER DISCUSSES THE GENERAL DESIGN AND PHILOSOPHY OF THE ARPA NETWORK TERMINAL SYSTEM (ANTS) AND ITS POTENTIAL USES IN VARIOUS TELECOMMUNICATIONS SITUATIONS, BUILT AROUND THE DEC POP-11 FAMILY, ANTS PROVIDES ITS USERS WITH ACCESS TO OVER SO COMPUTER AND RESEARCH INSTALLATIONS AT MORE THAN 40 SITES. THE FOLLOWING LIST OF SECTION TITLES TAKEN FROM THE PAPER GIVES AN OVERVIEW OF THE CONTENTS OF THE ARTICLE: PROTOTYPE DEVELOPMENT; HARDWARE; SOFTWARE CHARACTERISTICS; DEVICE MANAGEMENT; DATA HANDLING; DEVICE CLASSES; INTELLIGENT INTERFACING; USER INTE #FACE; SITE SUPPORT; UNIVERSITY OF ILLINDIS INSTALLATIONS; AND FUTURE PLANS.

FRASER, A. G., A IO-WIRE INTERFACE FOR DATA COMMUNICATIONS, (BELL TELEPHONE LABS. INC., MURRAY HILL, NJ), OATA NETWORKS: ANALYSIS AND DESIGN. THIRO DATA COMMUNICATIONS SYMPOSIUM, (ST. PETERSBURG. FL. NOVEMBER IJ-IS. I INSTITUTE OF ELECTRICAL AND ELECTRONICS ENCINERS INC., NEW YORK, 1973, IEEE (N-73-CHOB2B-4C. P IIJ-IZO, I REFS

GIVEN THE CONTINUING GROWTH IN COMPUTING TECHNOLOGY, NEW DATA COMMUNICATIONS SYSTEMS MUST BE ABLE TO ACCOMMODATE CHANGES IN TERMINAL BEHAVIOR AND CONTROL REQUIREMENTS WITHOUT REQUIRING CHANGES IN INSTALLED EQUIPMENT. A SYNCHRCHCUS SERIAL INTERFACE CONNECTING DATA PROCESSING EQUIPMENT TO A COMMUNICATIONS SYSTEM IS DESCRIBED. THE IO-WIRE INTERFACE IS MORE FLUXIBLE THAN EXISTING STANDARDS AND CAN HANDLE CERTAIN DESIRABLE EXTENSIONS TO COMMUNICATIONS CONTROL FUNCTIONS.

PEHRSON, DAVIO L., INTERFACING AND DATA CONCENTRATION, (CALIFORNIA, UNIV. OF, LIVERMORE), Abramson, Norman, Franklin F. Kud. Computer-Communication Networks, Prentice-Mall Inc., Englewood Cliffs, NJ, 1973, Computer Applications in Electrical Engineering Series, (tksi02.s.a283), p 197-236, 7 Refs (ANNDIATION UNCER 1.3)

TRIPATHI, PRABOOH C., OESIGN CONSIDERATIONS FOR THE MENEHUNE-KAHUNA INTERFACE FOR THE ALDHA SYSTEM. A PRELIMINARY REPORT OESIGN CONSIDERATIONS FOR THE MENEHUNE-KAHUNA INTERFACE FOR THE ALDHA SYSTEM. A PRELIMINARY REPORT, HAWAII, UNIV, OF, Hondlulu, aug 69, un th-69-7, af Faago-69-C-0030, 7P

THE ALOHA SYSTEM HAROWARE INTERFACE BETWEEN AN IBM 360765 COMPUTER AND ITS NETWORK COMMUNICATIONS FRONT ENO, AN HP 2115A, IS DESCRIBEO, THE STANDARD INTERFACE BETWEEN THE IBM 1827 DATA CONTROL UNIT AND THE IBM 360765 IS BRIEFLY DESCRIBED AND A SPECIAL INTERFACE BETWEEN THE IBM 1827 AND THE HP 2115A IS DETAILED,

ACHAROV. 8., THE USE OF A MODULAR SYSTEM FOR TERMINAL COUPLING, CONCENTRATING AND MULTIPLEXING IN COMPUTER NETWORKS, (SCIENCE RESEARCH COUNCIL. DARESBURY LAB.). IEEE 197A NATIONAL TELECOMMUNICATIONS CONFERENCE, (SAN DIEGO, CA. DECEMBER 2-A. 197A). INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YORK, 197A. IEEE P-74CHD902-7-CSCB, (LC S7-2072A), P 1039-104A, 12 REFS

THE USE OF CAMAC, A STANDARD INTERFACE SPECIFICATION, IS RECOMMENDED FOR ALL INTERFACES BETWEEN PROCESSORS. TERMINALS, MULTIPLEXERS AND CONCENTRATORS IN COMPUTER NETWORKS. UNFORTUNATELY, WITHOUT SOME KNOWLEDGE OF THE CAMAC SPECIFICATION, THE ARGUMENTS MADE IN THE ARTICLE ARE DIFFICULT TO EVALUATE; NO DESCRIPTION WHATSDEVER OF CAMAC APPEARS IN THE ARTICLE,

3.3.2 PROCESSORS

AMSTUTZ, STANFORD R., DISTRIBUTED INTELLIGENCE IN DATA COMMUNICATIONS NETWORKS. (MONEYWELL INFORMATION SYSTEMS INC., FRAMINGHAM. MA).

COMPUTER, VOL A, ISSUE 6, NOV-DEC 71, P 26-32

THIS IS AN INFORMATIVE SUMMARY ON THE USE OF MINICONPUTERS AS COMMUNICATIONS PROCESSORS BOTH AS FRONT ENDS TO CENTRAL COMPUTERS AND AS REMOTE TERMINAL CONCENTRATORS, IT IS SHOWN WHERE THE PROPER EMPLOYMENT OF MINICOMPUTERS CAN REMOVE SOME OF THE LOAD FROM A CENTRAL COMPUTER AND CAN REDUCE COMMUNICATIONS LINE CHARGES WHEN USED AS CONCENTRATORS. THE FUNCTIONS

3.3.2 PRDCESSCRS

THAT A MINICOMPUTER CAN PERFORM AT THE CENTRAL COMPUTER AND REMOTE TERMINAL SITES ARE SPECIFIED.

ARNSTEIN, S. M., W. R. CROWTHER, N. F. KRALEY, R. D. BRESSLER. A. MICMEL, F. E. MEART, PLURIBUS--A RELIABLE MULTIPROCESSOR. (BOLT. BERANEK AND NEWMAN INC., CAMERIOGE, MA). AFIPS CONFERENCE PPDCEEDINGS. VOLUME 44, 1975. NATIONAL COMPUTER CONFEPENCE. (ANAMEIM, CA. MAY 19-22, 1975), AFIPS PRESS. MONTVALE, NJ. 1975, (LC SS-44701), P SS1-SS9, 14 REFS

THE PLURIBUS IS A FAMILY OF SAITCHING NODES (ARPA IMP'S) WHICH HANDLE HIGH BANDWIDTH (I.S MEGABAND CIRCUITS), AND FIGF FANOLT TO HOSTS IN ADDITION TO BEING MODULAR IN DESIGN. THE ARCHITECTURE AND GOALS ARE DISCUSSED IN ADDITION TO SOME OF THE FAILURES. WHILE DESIGNED FOR THE ARPANET, MOST OF THE CONCEPTS ARE APPLICATION INDEPENDENT.

AUPPERLE, ERIC N., HERIT COMPUTER NETWORK: HARDWARE CONSIDEPATIONS, (MICHIGAN, UNIV. DF, ANN ARBOP), RUSTIN, RANDALL, COURANT COMPUTER SCIENCE SYMPOSIUM 3, COMPUTER NETWORKS, (NOVEMBER 30-DECEMBER 1, 1970), PRENTICE-HALL INC., ENGLEMODD CLIFFS, NJ, 1972, PRENTICE-HALL SEPIES IN AUTOMATIC COMPUTATION, (LC 79-39373), P 49-63 (ANNOTATION UNDER 3.1.1)

- BALL, CHRISTDPHER J., CD#MUNICATIONS AND THE MINICOMPUTEP, COMPUTER, VOL 4, ISSUE 5, SEP-OCT 71, P 13-21, S REFS (ANNOTATION UNDER 1,3)
- BARAN, PAUL, DN DISTRIBUTED COMMUNICATIONS: VII. TENTATIVE ENGINEERING SPECIFICATIONS AND PRELIMINARY DESIGN FOR A MIGH-DATA-RATE DISTRIBUTED NETWORK SWITCHING NODE, PAND CORP.. SANTA MONICA, CA. AUG 64. RC RM-3763-PR. AF 49(638)-700, (AD-440 832). 85P, S REFS

THIS ENGINEERING SPECIFICATION FOR A SMALL COMPUTER BASED SWITCHING NODE FOR A MESSAGE SWITCHED DISTRIBUTED NETWORK UNFORTUNATELY WAS DONE SHORTLY BEFORE THE WIDESPREAD USE OF WINICOMPUTERS. CONSIDERABLE SPACE IS DEVOTED TO THE DESIGN OF SUCH A MACHINE AS THE BASE FOR A SWITCHING NODE.

BECHER, WILLIAM D.. ERIC M. AUPPERLE. THE COMMUNICATIONS COMPUTER HARDWARE OF THE MERIT COMPUTER NETWORK. (MICHIGAN, UNIV, DF, DEAPBOPN, ENGINEERING DIV., MICHIGAN, UNIV, DF, ANN APBOP, DEPI, OF ELECTPICAL ENGINEERING) IEEE TRANSACTIONS DN COMMUNICATIONS, VOL COM-20, ISSUE 3, JUN 72, P SIG-526, II REFS

THIS ARTICLE DESCRIBES THE COMMUNICATIONS COMPUTER AND RELATED INTEPFACES FOR THE MERIT COMPUTER NETWORK. THE MEPTI NETWOPK INTEPCONNECTS THREE MICHICAN UNIVERSITIES VIA DIALABLE VOICE-GRADE PHONE LINES. THE UNIVERSITY CENTERS ARE AUTONDHOUS AND INCLUDE TWO IBM 360 SYSTEMS AND A CDC 6600. THE COMMUNICATIONS COMPUTER IS A PDP-11. DETAILS OF THE HOST AND COMMUNICATIONS INTEPFACES ARE PRESENTED.

EINDER, RICHARD, MULTIPLEXING IN THE ALDHA SYSTEM: MENEHUNE - KEIKI DESIGN CDNSIDERATIONS, HAWAII, UNIV, DF, HONDLULU, NDV 69, HU TR-B69-3, AF F44620-69-C=0030, 41P, 4 REFS

A COMMUNICATIONS FRONT END IS DESCRIBED USING A TECHNOLOGY SIMILAR TO THAT OF THE ARPANET INTERFACE MESSAGE PROCESSOP. THE COMMUNICATIONS PROTOCOL IS SIMPLE WITH FIXED MESSAGE LENGTHS AND A DNE-WAY (FRONT END TO TEPMINAL) ACKNOWLEDGEMENT SCHEME. THE DTHER SIGNIFICANT CONCEPTS IN ALDHA. NAMELY THE REPLACEMENT OF WIRE BY A RADID CHANNEL AND THE RANDOM ACCESS CHANNEL, ARE VERY WELL DESCRIBED IN THE ABRAMSON ARTICLE "THE ALDHA SYSTEM" IN CATEGORY 3-2-1.

BURCHFIEL, J., P. TOMLINSON, M. BEELEP, FUNCTIONS AND STRUCTURE OF A PACKET RADID STATION, (BOLT. BERANEK AND NEWMAN INC., CAMBRIDGE, MA), AFIPS CONFERENCE FROCEEDINGS. VOLUME 44, 1975, NATIONAL COMPUTER CONFERENCE, (ANAMEIM, CA, MAY 19-22, 1975), AFIPS PRESS, MONTVALE, NJ, 1975, (LC SS-44701), P 245-251, 10 REFS

A STATION IS THE ELEMENT OF A PACKET PADIO NETWORK RESPONSIBLE FOR DVERALL NANAGEMENT INCLUDING ROUTING, STATISTICAL ANALYSIS, LOGGING, AND DATA ENCRYTPTION. CONTROL FUNCTIONS AND PROTOCOLS APE DISCUSSED.

BURNER, H. B.. R. MILLIDN, D. W. RICHAPD, J. S. SDBDLEWSKI. THE USE DF A SMALL COMPUTER AS A TERMINAL CONTROLLER FOP A LARGE COMPUTING SYSTEM. (WASHINGTON. STATE UNIV. OF, PULLMAN), AFIPS PROCEEDINGS. 1969 SPRING JOINT COMPUTER CONFERENCE. VOLUME 34. (BDSTDN. MA. MAY 14-16. 1969), AFIPS PRESS, MONTVALE, NJ. 1969, AFIPS CONFERENCE PROCEEDINGS, (LC S5-44701), P 775-776

THIS ARTICLE BRIEFLY DESCRIBES THE USE OF AN INTERDATA MODEL 3 TO REPLACE AN IBM 2702 TERMINAL CONTROL UNIT.

CARTER, W. C., RELIABILITY TECHNIQUES APPLICABLE TD MESSAGE PROCESSORS. (INTERNATIONAL BUSINESS MACHINES CORP., YCRKTCWN HEIGHTS, NY, THOMAS J. WATSON RESEARCH CENTER). DATA NETWORKS: ANALYSIS AND DESIGN. THIRO DATA COMMUNICATIONS SYMPOSIUM. (ST. PETERSBURG, FL. NOVEMBER 13-15, 1973), INSTITUTE OF ELECTROLICS ENGINEEPS INC., NEW YORK, 1973, IEEE CN-73-CH0828-4C, P 157-158, 9 REFS

THE AUTHOR DISCUSSES FAULT TOLERANT COMPUTEPS. SDME OF THE TECHNIQUES ADDRESSED ARE: DFF-LINE FAULT DETECTION. CN-LINE FAULT DETECTION. RECOVERY, FAULT-AVOIDANCE TECHNIQUES, AND MODELING.

CLOSS, FELIX, PACKET ARPIVAL AND BUFFER STATISTICS IN A PACKET SWITCHING NDDE, (IBM RESEARCH LAB,, ZURICH, (Switzerland), data communications center), Data Networks: analysis and design, therd data communications symposium, (st. petepsburg, fl. november 13-15, 1973), INSTITUTE DF ELECTRICAL AND ELECTRONICS ENGINEEPS INC., NEW YDRK, 1973, IEEE CN-73-CH0828-4C, P 12-17, 10 REFS

THE AUTHOR REPORTS ON THE INVESTIGATION OF A MODEL FOR A PACKET SWITCHING NODE. FIRST, THE STATISTICS OF PACKET ARPIVAL AT A TRUNK ARE ANALVZED. THEN THESE STATISTICS ARE USED FOR AN APPROXIMATE ANALYSIS OF BUFFER REQUIREMENTS AND DVERFLOW PROBABILITIES.

CRDWTHER, W., J. MCGUILLAN, D. WALDEN, RELIABILITY ISSUES IN THE ARPA NETWORK, (BDLT, BERANEK AND NEWMAN INC., CAMBRIDGE, M.),

DATA NETWORKS: ANALYSIS AND DESIGN, THIRD DATA COMMUNICATIONS SYMPDSIUM, (ST. PETEPSBURG, FL, NOVEMBER 13-15, 1973). INSTITUTE DF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YDRK, 1973, IEEE CN-73-CH0828-4C, P IS9-160, S PEFS

THE COMMUNICATIONS SUBNET OF THE ARPA NETWORK CONSISTS OF INTERFACE MESSAGE PROCESSORS (IMPS) CONNECTED TOGETHEP BY WIDE-BAND COMMUNICATIONS CIRCUITS. BOTH THE IMP'S AND THE CIPCUITS DCCASIDNALLY FAIL. THE REPORT DISCUSSES SOME OF THE TECHNIQUES EMPLOYED TO MINIMIZE THE EFFECTS OF COMPONENT FAILUPES.

DORFF, ERVIN K., A MULTIPLE MINICOMPUTEP MESSAGE SWITCHING SYSTEM, (COMPUTER COMMUNICATIONS INC., CULVER CITY, CA). COMPUTER DESIGN, VOL II, ISSUE 4, APR 72, P 67-73

HAVING FDUND MINICOMPUTERS TO BE IDEALLY SUITED FDR A VARIETY OF MESSAGE-SWITCHING AND FRDNT-END COMMUNICATIONS TASKS, THE TREND IS NOW TO ASSIGN THEM ADDITIONAL TASKS. THIS ARTICLE DESCRIBES SUCH AN APPROACH BASED ON A MULTI-PROLESSOR MINICOMPUTER SYSTEM. EACH PROCESSOR IN THE COMPLEX IS DEDICATED TO A PARTICULAR SET OF FUNCTIONS, RATHER THAN BEING OWNAMICALLY ALLOCATED TO TASKS, AN ADDITIONAL SINGLE PROCESSOR IN THE SYSTEM CAN ACT AS BACKUP FOR ANY OF THE DTHERS.

- ELLIS, T. D., E. F. HAPSLEM, JDHN F. HEAFNEP, K. U. UNCAPMER, ARPA NETWORK SEPIES: I. INTRODUCTION TO THE ARPA NETWORK AT RAND AND TO THE RAND VIDED GRAPHICS SYSTEM, RAND COPP., SANTA MONICA, CA, SEP 71. RC R-664-ARPA, ARPA DAHC-IS-67-C-014I, (AD-733 049), 4BP, 32 REFS (ANNDTATION UNDER 3.1.0)
- FAYDLLE, G., ERDL GELENBE, J. LABETDULLE. D. BASTIN, THE STABILITY PROBLEM OF BPDADCAST PACKET SWITCHING COMPUTER NETWORKS, (IRIA-LABORIA, ROCQUENCOURT, (FRANCE)), GELENBE, ERDL, ROBERT MAHL, COMPUTER ARCHITECTURES AND NETWORKS. MODELLING AND EVALUATION, (AUGUST 12-14, 1974), AMEPICAN ELSEVIER PUBLISHING CD. INC., NEW YDRK, 1974, (LC 74-83728), P 135-140, 10 REFS

DUE TO THE INEFFICIENCY OF ALLOCATING A LARGE NUMBER OF LDW CAPACITY CHANNELS TO A LARGE SET OF USEP PAIRS TRANSMITTING DATA TO EACH DIHER, COMPARED TO THE SHARING OF A HIGH SPEED CHANNEL BETWEEN THE ENSEMBLE OF USERS, VARIOUS FORMS OF PACKET SWITCHING SCHEMES HAVE BEEN SUGGESTED AND IMPLEMENTED IN THE ARPA, CYCLADES AND ALDHA COMPUTE NETWORKS. THIS PAPER IS CONCERNED WITH NETWORKS USING RADIO CHANNELS FOR PACKET SWITCHING SINILAR TO THE APPROACH TAKEN IN THE ALDHA NETWORK, THE RAFER PRESENTS A SIMPLE MATHEMATICAL MODEL OF THE BROACKST CHANNEL FOLLOWED BY A PRODE OF THE INSTABLINT OF THE ROPULATION SLOTTED BROADCAST CHANNEL. THE RESULT PRESENTED CONFIRMS THE DISCUSSION BASED ON "FLUID APPPOXIMATION" AND THE SIMULATIONS OF KLEINBOCK AND LAM AS DISCUSSED IN THEIR ARTICLE "PACKET SWITCHING IN A SLOTTED SATELLITE CHANNEL, NATIONAL COMPUTER CONFERENCE, AFIPS CONFERENCE PROCEEDINGS, 1973.

FUCHEL, KURT, SIDNEY HELLER, THO DISSIMILAR NETWOPKS - IS MARRIAGE PDSSIBLE?, (ERDOKHAVEN NATIONAL LAB., UPTDN, NY,

3.3.2 FROCESSORS

OEPT, CF APPLIED MATHEMATICS). PROCEEDINGS OF THE 1975 SYMPOSIUM-COMPUTER NETWORKS: TRENOS AND APPL(CAT(ONS, (GAITHERSBURG, MO, JUNE 18, 1975). INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YORK, 1975, 75CH0973-BC, P 19-24, 10 REFS

THIS PAPER CONSIDERS THE PROBLEM OF TYING TOGETHER TWO DISSIMILAR NETWORKS. THE TWO UNDER CONSIDERATION ARE BROOKNET AND APPANET. EACH NETWORK (S BRIEFLY DESCRIBED AND THEN CONTRASTED WITH THE OTHER. THE APPROACH SUGGESTED INVOLVES A LARCE MINICOMPUTER. SUCH AS A POP-11 OR COOS OWICH WOULD PLAY THE ROLE OF VOM AND INCLUDE SOFTWARE FOR BOTH ARPANET AND BROCKNET. ALTDOUGH THE DISCUSSION IS SPECIFICALLY ABOUT BROOKNET, THE AUTMORS FEEL THAT IT APPLIES EQUALLY WELL TO ANY HIGH SPEED CENTRAL NOOE NETWORK. (ALSO UNDER 3.1.0)

FEART, F. E., S. M. ORNSTEIN, W. R. CROWTHER, W. B. BARKER, A NEW MINICOMPUTER/MULTIPROCESSOR FOR THE ARPA NETWORK, (BOLT, BERANKK AND NEWMAN INC., CAMBRIDGE, MA), AFIPS CONFERENCE PROCEEDINGS. VOLUME 42, 1973, NATIONAL COMPUTER CONFERENCE AND EXPOSITION, (NEW YORK, NY, JUNE 4-B, 1973), AFIPS PRESS, MONTVALE, NJ, 1973, AFIPS CONFERENCE PROCEEDINGS. (LC SS-44701), P S29-537, 31 REFS

A NEW MINICOMPUTER/MULTIPROCESSOR IS DESCRIBED, UNIQUE FEATURES OF THE MAROWARE DESIGN AND SOFTWARE ORGANIZATION INCLUDE: AN EXPANDALE NUMBER OF IDENTICAL PROCESSORS EACH WITH *PRIVATE* MEMORY: SHARED MEMORY AND I/D EDUIPMENT CONTROLLABLE BY ANY PROCESSOR; A MODULAR SCHEME FOR INTERCONNECTING PROCESSORS; AND THE ABSENCE OF AN EXECUTIVE SYSTEM, WITH EACH PROCESSOR DETERMINING ITS OWN TASK ALLOCATION. THE AUTHORS BELIEVE THAT THIS SYSTEM MAY DFFER SIGNIFICANT AOVANTAGES IN MODULARITY, RELIABLITY AND COST/PREPROMANCE.

FEBOITCH, O. L., SOFTWARE OISPERSION: THE MINICOMPUTER IN OATA COMMUNICATIONS,(PRESENTED AT, SOFTWARE 72, CANTERBURY, (Ergland), July 24-26, 1972), (PLIENER ASSOCIATES LTO., LEEDS, (England)), Various Articles and Papers, 1972, 159, II refs

THIS IS A REASONABLY GOOD TREATMENT OF THE VARIETY OF APPLICATIONS OF MINICOMPUTERS IN GATA COMMUNICATIONS SYSTEMS. THE EMPHASIS IS ON PROGRAMMING CONSIGERATIONS FOR MINICOMPUTERS TO PERFORM COMMUNICATIONS CONTROL TASKS. INCLUGED IS SOME SPECULATION ON THE LIKELY EFFECT OF MINICOMPUTERS AS COMMUNICATIONS CONTROLLERS ON EXISTING CPU COMMUNICATIONS CONTROL SOFTWARE. (ALSC UNDER 3.4.1)

HOLMES, JAMES F., SPECIFYING A MESSAGE-SWITCHING COMPUTER, (800Z, ALLEN ANO MAMILTON), Control Engineering, Vol 12, ISSUE 2, FE8 65, P 89-92, 4 REFS

A SET OF SPECIFICATIONS IS PRESENTED FOR A MESSAGE SWITCHING COMPUTER DESIGNED TO TRANSFER DATA VARY(NG (N CODE, PRICRITY, AND SPEED AMONG DIFFERENT INPUT AND DUTPUT DEVICES. A SWORT JUSTIFICATION FOLLOWS EACH ELEMENT OF THE SPECIFICATION.

- INTERFACE MESSAGE PROCESSORS FOR THE ARPA COMPUTER NETWORK, OUARTERLY TECHNICAL REPORT NO. 3, BOLT, BERANEK AND NEWMAN INC., CAMBRIDGE, MA, OCT 73, I JUL-30 SEP 73, AF F08606-73-C-0027, (80NI R-2667), 20P (ANNOTATION UNDER 3.1.1)
- KAHN, RCBERT E., TERMINAL ACCESS TO THE ARPA COMPUTER NETWORK. (BOLT, BERANEK AND NEWMAN INC., CAMBRJOGE, MA). Rustin, Randall, Courant computer science symposium 3. computer networks, (november 30-occember 1, 1970), prentice-hall Inc., Engleword cliffs, NJ, 1972, prentice-hall series in Automatic computation, (LC 79-3973), P 147-166

THIS PAPER DESCRIBES SOME OF THE FEATURES OF THE TERMINAL INTERFACE MESSAGE PROCESSOR (TIP) FOR THE ARPANET. TERMINALS ARE ABLE TO CONNECT TO THE ARPANET DIRECTLY THROUGH THE TIP WITHOUT THE NECESSITY OF A HOST COMPUTER. Some interesting duestions and answers concerning error handling on the Arpanet are included.

- KIRSTEIN, PETER T., UNIVERSITY COLLEGE, LONDON, ARPANET PROJECT, ANNUAL REPORT, UNIVERSITY COLLEGE, LONDON, (ENGLAND), OEPT. OF STATISTICS AND COMPUTER SCIENCE, DEC 74, 1 JUL 73-30 SEP 74, UC TR-17, ONR NO0014-74-C-2080, 59P, 24 REFS (ANNCTATICN UNDER 3.1.1)
- NEWPORT, C. 8., SMALL COMPUTERS IN OATA NETWORKS. (HONEYWELL INC., FRAMINGMAM, MA), AFIPS PROCEECINGS, 1969 Spring Joint Computer Comperence. Volume 3.4, (BOSTON, MA, May 14-16, 1969), AF1PS Press, Montvale, NJ, 1969, AFIPS CONFERENCE PROCEECINGS, (LC 85-44701), P 773-775

THE USE OF A MINICOMPUTER AS A REMOTE CONCENTRATOR IN THE AMERICAN AIRLINES SABRE SYSTEM AND AS A COMMUNICATIONS CONTROLLER IN A HONEYWELL H-1648 TIME-SHARING SYSTEM IS 8RIEFLY DESCRIBEO. IT IS AN INTERESTING, BUT DATED, REPDRT,

CRNSTEIN, S, M., FRANK E, MEART, WILLIAM R, CROWTHER, H, K, RISING, S, B, RUSSELL, A, MICHEL, THE TERMINAL IMP FOR The Arpa Computer Network, (Odlt, Beranek and Newman Inc., Cambridge, Ma), AFIPS Conference, 1972 Spring Joint Computer Conference. Volume 40, (Atlantic City, NJ, May 16–18, 1972), AFIPS PRESS, Montvale, NJ, 1972, Afips Conference proceedings (LC S5–4470), p. 243–254, 15 Refs

THE TERMINAL INTERFACE MESSAGE PROCESSOR (TIP) FOR THE ARPANET IS DESCRIBED. THE TIP PERMITS DIRECT TERMINAL ACCESS TO THE NETWORK, I.G., THE NETWORK CAN BE ACCESSED BY A TERMINAL USER WITHOUT A HOST COMPUTER. THE TIP IS ACTUALLY AN IMP (INTERFACE MESSAGE PROCESSOR) WITH THE ADDITION OF A MULTI-LINE CONTROLLER (MLC) TOGETHER WITH ADDITIONAL CORE AND SOFTWARE WHICH ALLOWS FOR THE CONNECTION OF TERMINALS TO THE IMP.

RETZ: OAVIO L., CPERATING SYSTEM DESIGN CDNSIDERATIDNS FOR THE PACKET-SWITCHING ENVIRONMENT, (SPEECH COMMUNICATIONS RESEARCH LAB. INC., SANTA BARBARA, CA); AFIPS CONFERENCE PROCEEDINGS. VDLUME 44, 1975. NATIONAL COMPUTER CONFERENCE. (ANAHEIM, CA, MAY 19-22. 1975); AFIPS PRESS, MONTVALE. NJ, 1975. (LC 55-44701). P 155-160, 22 REFS (ANNOTATION UNDER 3.0)

3.3.9 OTHER

BELL, C. GORODN, ROBERT C. CHEN, SAMUEL H. FULLER, JOHN GRASDN, SATISH REGE, OANIEL P. SIEWIOREK, THE ARCHITECTURE AND APPLICATIONS OF COMPUTER MODULES: A SET OF COMPONENTS FOR DIGITAL SYSTEMS DESIGN. (DIGITAL EOUIPMENT CORP., MAYNARD, MA, CARNEGIE-MELLON UNIV., PITTSBURGH, PA, OEPTS, OF COMPUTER SCIENCE AND ELECTRICAL ENGINEERING). COMPCON 73 - SEVENTH ANNUAL IEEE COMPUTER SOCIETY INTERNATIONAL COMFERENCE, DIGEST DF PAPERS, "COMPUTING NETWORKS FROM MINIS THRCUGH MAXIS -- ARE THEY FOR REAL?", (SAN FRANCISCD, CA, FEBRUARY 27-28, MARCH 1, 1973), INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS INC., NEW YORK, 1973, (LC 60-1628), P 177-180, 14 REFS

THIS PAPER DISCUSSES THE DESIGN AND USE DF SYSTEM-BUILDING MODULES, CALLED COMPUTER NDDULES (CMS). EACH CM CONSISTS DF A PROCESSOR, MEMORY, AND PARTS WHICH MANDLE SUCH DPERATIONS AS MANDSHAKING AND BUFFERING. THE ARCHITECTURE DF CMS, AND THEIR APPLICATIONS ARE DESCRIBED.

GENTILE, R. B., J. R. LUCAS, JR., THE TABLON MASS STORAGE NETWORK, (DEPARTMENT OF DEFENSE, WASHINGTON, DC). AFIPS CONFERENCE PROCEEDINGS. VOLUME 38, 1971, SPRING JDINT COMPUTER CONFERENCE, (ATLANTIC C(TY, NJ, MAY 18-20, 1971), AF1PS PRESS, MONTVALE, NJ, 1971, AFIPS CONFERENCE PROCEEDINGS, (LC S5-44701), P 34S-356, 6 REFS

THE TABLON MASS STORAGE NETWORK WHICH PROVIDES SEVERAL TRILLION BITS OF ON-LINE STORAGE TO A NUMBER OF DISSIMILAR COMBUTERS CONNECTED TO THE NETWORK IS DESCRIBED. USER COMPUTERS, LOCAL DR REMOTE, SMARE THE COMMON STORAGE SYSTEM, WHICH INCCRPDRATES A PAIR OF POP-10'S FOR NETWORK CONTROL, AN AMPEX TERABIT MEMORY, AND TWO IBH 1360 PHOTO STORAGE SYSTEMS. ALL CO PONENTS OF THE MASS STORAGE SYSTEM AND THE CONTROL SOFTWARE ARE DESCRIBED IN DETAIL. (ALSD UNDER 4.3)

ROBERTS, LAWRENCE G., EXTENSIONS OF PACKET COMMUNICATION TECHNOLOGY TO A HAND MELO PERSONAL TERMINAL, (ADVANCED RESEARCH PROJECTS AGENCY, WASHINGTON, DC). AFIPS CONFERENCE, 1972 SPRING JDINT COMPUTER CONFERENCE, VOLUME 40, (ATLANTIC CITY, NJ, MAY 16-18, 1972), AFIPS PRESS, MONTVALE, NJ, 1972, AFIPS CONFERENCE PROCEEDINGS, (LC SS-44701), P 295-298, 11 REFS

THE FEASIBILITY OF A HAND HELD PERSONAL TERMINAL IS DISCUSSED AND ITS METHOD OF TRANSMITTING AND RECEIVING DATA USING RANDOM ACCESS RADID TRANSMISSION TECHNIQUES IS OESCRIBED. THE TERMINAL AND ITS FUNCTIONAL CHARACTERISTICS ARE DESCRIBED IN DETAIL, THE PACKET COMMUNICATION TECHNIQUES FOR THE TERMINAL WAS DEVELOPED UNDER THE ARANET PROJECT.

VAN DAM, ANDRIES, GEDRGE M, STABLER, INTELLIGENT SATELLITES FDR INTERACTIVE GRAPHICS, (BROWN UNIV., PROVIDENCE, RI), AFIPS CONFERENCE PROCEEDINGS, VOLUME 42, 1973, NATIONAL COMPUTER CONFERENCE AND EXPOSITION. (NEW YORK, NY, JUNE 4-8, 1973), AFIPS PRESS, NONTVALE, NJ, 1973, AFIPS CONFERENCE PROCEEDINGS, ICL SS-44701), P 229-238, 31 REFS 3.3.9 CTHER

AN INTELLIGENT SATELLITE TERMINAL IS DEFINED AS A TERMINAL DEVICE CONTAINING A GENERAL PURPOSE COMPUTER WHICH IS EASILY ACCESSIBLE TO THE DROIMARY USER FOR ANY PURPOSE AND PROGRAM. THE AUTHORS INVESTIGATE INTELLIGENT SATELLITE COMPUTING, DESIGN FEATURES FOR SATELLITE CONFIGURATIONS, SOFTWARE STRATEGIES AND APPLICATIONS. THE BROWN UNIVERSITY GRAPHICS SYSTEM (BUGS) IS DESCRIBED.

3.4.D GENERAL

- BLANC, FOBERT P., REVIEW OF COMPUTER NETWORKING TECHNOLOGY, NATIONAL BUREAU DF STANDAROS, WASHINGTON, DC, INST, FOR Computer Sciences and Technology, Jan 74, NBS TN-B04, NSF AG-350, 135P, 41 REFS (ANNOTATION UNDER 1.3)
- SCANDWER, ALFRED B., MERIT COMPUTER NETWORK: SOFTWARE CONSIDERATIONS, (MICHIGAN, UNIV, OF, ANN ARBOR), Rustin, Randall, Courant computer science symposium 3. Computer Networks, (November 3D-december 1. 1970), prentice-hall Inc., Englewood cliffs, NJ, 1972, prentice-hall series in Automatic Computation, (LC 79-39373), p 65-77, 1 REPS ANNOTATION UNDER 3.1.1)
- FARBER, OAVIO J., KENNETH C. LARSON, THE STRUCTURE OF A DISTRIBUTEO COMPUTING SYSTEM--SOFTWARE, (PRESENTED AT, SYMPOSIUM CN COMRUTER-COMMUNICATIONS NETWORKS AND TELETRAFFIC, 1972), CALIFORNIA, UNIV. OF, IRVINE, 1972, NSF GJ-1045, 17P, 2 REFS

THIS WELL PREPARED DESCRIPTION OF A DISTRIBUTED NETWORK OF SMALL COMPUTERS DRGANIZED IN A RING CONFIGURATION UTILIZING HIGH BANDWIDTH COMMUNICATION CIFCUITS DESCRIBES BOTH HARDWARE AND SOFTWARE, MESSAGE ADDRESSING BETWEEN PROCESSES WITHIN ONE CRU OR BETWEEN CPU'S IS HANDLED IN A GENERAL, WELL-THOUGHT-OUT MANNER, SIMULATION AND PROTOTYPE IMPLEMENTATION OF THE NETWORK HAS ALREADY BEGUN. (ALSO UNDER 5.6)

SDMIA, MONIDUE M., SUPER SYSTEM OR SUBSYSTEM IN A DISTRIBUTED COMPUTER NETWORK. (INTERNATIONAL BUSINESS MACHINES CORP., PARIS, IFRANCE), The Second International Conference on Computer Communication, Computer communication Today and up to 1985, (STOCKHOLM, The Second International Conference on Computer Communication, Computer communication Today and up to 1985, (STOCKHOLM, THE

(SWEDEN), AUGUST 12-14, 1974), [NTERNATIONAL COUNCIL OF 1CCC, 1974, R 315-323, 16 REFS

THE AIM DE THIS PARER IS TO STUDY THE LOGICAL STRUCTURES WHICH CAN LINK, IN A DISTRIBUTED COMPUTER NETWORK, THE SET OF SOFTWARE FACILITIES DEDICATED TO THE NETWORK, TO THE NORMAL CONTROL SYSTEMS WHICH MANAGE THE DIFFERENT COMPUTERS OF THE NETWORK. TWO ALTERNATE STRUCTURES ARE STUDIED: A NETWORK SYSTEM WHICH IS A SUBER SYSTEM, THE COMPONENTS OF WHICH ARE THE LOCAL CONTROL SYSTEMS, AND A NETWORK SYSTEM WHICH IS DN EACH COMPUTER, A SUBSYSTEM OF THE LOCAL CONTROL SYSTEM.

SOMIA, MONIQUE, THE APPROACH OF SOFTWARE PROBLEMS IN THE SOC EXRERIMENTAL COMPUTER NETWORK, (IBM-FRANCE, PARIS), WINKLER, STANLEY, COMPUTER COMMUNICATIONS: (MPACTS AND IMPLEMENTATION. THE FIRST INTERNATIONAL COMFERENCE ON COMMUNICATION, COMMUNICATION, (WASHINGTON, OC, OCTOBER 24-26, 1972), INTERNATIONAL CONFERENCES ON COMPUTER COMMUNICATION, 1972, ICCC 72-CHO-90-BC, NSF 6J-33239, P 390-396, IO REES

THE SOFTWARE FACILITIES PROVIDED THE USER OF THE SOC SYSTEM (FRENCH ABBREVIATION FOR CONNECTED COMPUTER SYSTEM) ARE DESCRIBED, THE NETWORK CONNECTS, IN A DISTRIBUTED FASHION, SIX IBM 360'S (DIFFERENT MODELS) THROUGH THEIR 2701 INTERACES, A NETWORK CONTROL LANGUAGE IS DESCRIBED WHICH SUPPORTS FILE COPYING AND TRANSMISSION OF JOBS TO REMOTE COMPUTERS AND IS APPARENTLY LIMITED TO USE ON IBM 360'S RUNNING UNDER THE *DS' OPERATING SYSTEM.

WECKER, STUART, A DESIGN FOR A MULTIPLE RRDCESSOR DPERATING ENVIRDNMENT, (DIGITAL EDUIPMENT CORR., MAYNARD, MA). COMPON 73 - SEVENTH ANNUAL IEEE COMPUTER SOCIETY INTERNATIONAL CONFERENCE, DIGEST OF PAPERS. "COMPUTING NETWORKS FROM MINIS THREUGE MAXIS -- ARE THEY FOR REAL?", (SAN FRANCISCO, CA, FEBUARY 27-28, MARCH I, 1973), INSTITUTE OF ELECTRICAL AND ELECTRONIC ENCIMENTS INC., NEW YORK, 1973, (LC 68-1628), P 143-146, 14 REFS

AN OPERATING SYSTEM DESIGN FOR MULTIPLE PROCESSOR HAROWARE CONFIGURATIONS WITH A UNIFIED COMMUNICATION DESIGN FOR INFORMATION EXCHANCE IS PRESENTED. LINKED HAROWARE CONFIGURATIONS OF PROCESSORS. THE COMMUNICATIONS PROBLEMS OF THESE SYSTEMS. AND A GENERAL DESIGN FOR AN OPERATING SYSTEM FOR MULTIPLE PROCESSOR HAROWARE ARE DISCUSSED. THE GOAL OF THIS RAPER IS TO SHOW THAT THERE IS A TECHNIQUE WHICH CAN BE UTILIZED TO BUILD *CLEANLY INTERFACED DERATING SYSTEMS FOR MULTIPLE PROCESSOR ENVIRONMENTS.* (ALSO UNDER 3.2.2)

WILKINSCN, P. T., R. A. SCANTLEBURY, THE CONTROL FUNCTIONS IN A LOCAL DATA NETWORK, (NATIONAL RHYSICAL LAB., TEODINGTON, (ENGLAND)), INFORMATICN PROCESSING 6B: RROCEEDINGS OF IFIR CONGRESS 1568, VOLUME 2--HARDWARE, APPLICATIONS, (EDINBURGH, (SCOTLAND), AUGUST 5-10, 1968), NORTH-HOLLAND PUBLISHING CO., AMSTERDAM, (NETHERLANDS), 1969, IFIP CONGRESS PROCEEDINGS, (LC 65-24118), P 724-728, 3 REFS

THE OPERATING PRINCIRLES OF A PROPOSED INTERFACE COMPUTER AND FACILITIES THAT IT SHOULD OFFER IN RELATION TO A NATIONAL RETWORK ARE DESCRIBED. THE INTERFACE COMPUTER CONTROLS THE LOCAL NETWORK AND ACTS AS THE INTERFACE BETWEEN THE LOCAL AND NATIONAL NETWORKS. THE NETWORK CONCEPT IS A STORE-AND-FORWARD SYSTEM CONNECTING A NUMBER OF LOCAL OR REGIONAL NETWORKS. THE REGIONAL NETS JOIN A NUMBER OF SUBSCRIBER TERNINALS WITHIN A GEOGRAPHICAL REGION.

WILKINSON, P. T., A MODEL FOR THE LOCAL AREA OF A DATA COMMUNICATION NETWORK--SOFTWARE ORGANIZATION, NATIONAL RHYSICAL LAB,, TEODINGTON, (ENGLAND), DIV. OF COMPUTER SCIENCE, OCT 69, NPL-OCS COM-SCI-T.N.29, 20P, 6 REFS (ANNOTATION UNDER S.1.+1)

3.4.1 COMMUNICATIONS

ERANCH, JACK, DEFINE YOUR MESSAGE SWITCHING SOFTWARE NEEDS BEFORE YOU BUY, (INCOTEL LTD., NEW YORK), COMPUTER DECISIONS, VOL 4, ISSUE 6, JUN 72, P 37-39

THIS BRIEF 'COOKBOOK' ARTICLE GIVES A SUGGESTED PROCEDURE FOR SPECIFYING MESSAGE-SWITCHING SOFTWARE: 1. DEFINE THE SYSTEM'S RURPOSE, 2. DETERMINE THE TYPES AND NUMBERS OF CIRCUITS NEEDED. 3. SRECIFY MESSAGE FORMATS, 4. ESTIMATE MESSAGE STATISTICS, 5. DESIGN A HANDLING METHOD FOR MESSAGES WITH IMPROPER FORMAT, 6. LIST ROUTING REOULREWENTS, 7. LIST ALTERNATE ROUTING NEEDS, 8. RROVIDE MESSAGE PROTECTION DATA, 9. LIST REQUIREMENTS FOR A JOURNAL OF MESSAGE STATISTICS, 10. STATE MESSAGE PRETIEVAL NEOS. THE TREATMENT IS SOMEWHAT SUPERFICIAL.

- ESPRES, REMI F., A RACKET SWITCHING NETWORK WITH GRACEFUL SATURATEO ORERATION, (CENTRE, NATIONAL O'ETUGES GEO TELECCMMUNICATIONS (CNET), ISSY LES MOULINEAUX, (FRANCE)), WINKLER, STAMLEY, COMPUTER COMMUNICATIONS: IMPACTS AND IMPLEMENTATION. THE FIRST INTERNATIONAL COMFERENCE ON COMPUTER COMMUNICATION, (WASHINGTON, OC, OCTOBER 24-26, 1972), INTERNATIONAL CONFERENCES ON COMPUTER COMMUNICATION, 1972, ICCC 72-CHO-69D-BC, NSF GJ-33239, P 345-351, 14 REFS (ANOTATION UNDER 3.2.2) DESPRES. REMI E.
- MEBOITCH, O.L., SOFTWARE DISPERSION: THE MINICOMPUTER IN OATA COMMUNICATIONS.(PRESENTED AT, SOFTWARE 72, CANTERBURY, (ENGLAND), JULY 24-26, 1972), (PLIENER ASSOCIATES LTO., LEEDS, (ENGLAND)), VARIOUS ARTICLES AND PAPERS, 1972, ISP, 11 REFS (ANDTATION UNDER 3.3.2)

WILLIAM R, CROWTHER, FLOW CONTROL IN A RESOURCE-SHARING COMPUTER NETWORK, (BOLT, BERANEK AND NEWMAN KAHNA POBERT F. CAMBRIDGE, MILLIAM R, CROWINER, FLOW CONTROL IN A RESOURCE-SHARING COMPOSER NETWORK, (BULL, BERANEK AND NEWMAN CAMBRIDGE, MA), DN, RETER E., PROCEEDINGS. ACM/IEEE SECOND SYMPOSIUM ON PROBLEMS IN THE OPTIMIZATION OF DATA COMMUNICATION SYSTEMS, INC., CAM JACKSON,

(RALO ALTO, CA, OCTOBER 2D-22, 1971), 1971, IEEE CAT-71CS9-C, P 108-116, 13 REFS

THIS PAPER IS A TECHNICAL DISCUSSION DEVOTED TO NETWORK FLOW CONTROL, SRECIFICALLY IN RELATION TO THE ARPANET, AND IS PARTICULARLY CONCERNED WITH LOCKOUT AND LOCKOUT PREVENTION. SDUDREZDESTINATION FLOW CONTROL IS DISCUSSED FIRST AND THE MANIPULATION OF REASSEMBLY BUFFERS, RFNM*S (REDUEST FOR NEXT MESSAGE), AND PRIORITH MANDLING ARE EXPLAINED AND THEIR USE IN REASSEMBLY LOCKOUT IS DETAILED. STORE AND FORWARD FLOW CONTROL IS THEN CONSIDERED, INCLUDING LOCKOUT PROBLEMS AND SOLUTIONS USING BUFFER ALLOCATION, ACKNOWLEDGEMENT SCHEMES, AND OVERFLOW BUFFER ALLOTMENT.

- OF LYER, PAUL, DESIGN SPECIFICATIONS FOR A GENERALIZED TELEPROCESSING SYSTEM. (SPERRY RAND CORP., WASHINGTON, DC. UNIVAC IAG JCURNAL, VOL 4, ISSUE 4, 1971, P 350-359, 3 REFS
 - A TELEPROCESSING SYSTEM IS SPECIFIED WHICH IS DESIGNED TO ALLOW ANY ARPLICATION OR SYSTEMS PROGRAM TO CONNECT TO

3.4.1 COMMUNICATIONS

ANY TERMINAL DEVICE. THE TELEPROCESSING SYSTEM SOFTWARE MODULES ARE FUNCTIONALLY DESCRIBED, INCLUDING A DISCUSSION OF THE •DESCRIPTOR LIBRARY• WHICH CONTAINS INFORMATION NECESSARY FOR THE PROPER HANDLING OF DIFFERENT TERMINAL TYPES.

RETZ, DAVID L., ELF--A SYSTEM FOR NETWORK ACCESS, (SPEECH COMMUNICATIONS RESEARCH LAB. INC., SANTA BARBARA. CA), 1975 IEEE INTERCON CONFERENCE RECORD, (NEW YORK, APRIL B-10, 1975), INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YORK, 1975. P 25-2-1--25-2-5, B REFS

THIS PAPER DESCRIBES THE STRUCTURAL ASPECTS OF ELF AS A SYSTEM FOR NETWORK ACCESS, AND PRESENTS A FUNCTIONAL VIEW DF USER SERVICES PROVIDED BY THE SYSTEM. A GENERAL DISCUSSION OF ARPANET PROTOCOL STRUCTURE IS ALSD INCLUDED.

RETZ, DAVID L., OPERATING SYSTEM DESIGN CONSIDERATIONS FOR THE PACKET-SWITCHING ENVIRONMENT, (SPEECH COMMUNICATIONS

RESEARCH LAG. INC. SANTA BARBARA, CA). AFIPS CONFERENCE PROCEEDINGS, VOLUME 44, 1575, NATIONAL COMPUTER CONFERENCE, (ANAMEIM, CA, MAY 19-22, 1975), AFIPS PRESS. MONTVALE, NJ, 1975, (LC SS-44701), P 15S-160, 22 REFS (ANNOTATION UNDER 3.0)

3.4.2 CPERATING SYSTEMS

AKKOYUNLU, E., A. BERNSTEIN, R. SCHANTZ, SOFTWARE COMMUNICATION ACROSS MACHINE BOUNDARIES. (NEW YORK, STATE UNIV. OF. STONY BROCK). COMPCON 73 - SEVENTH ANNUAL IEEE COMPUTER SOCIETY INTERNATIONAL CONFERENCE. DIGEST OF PAPERS. *COMPUTING NETWORKS FROM MINIS THROUGH MAXIS -- ARE THEY FOR REAL?*. (SAN FRANCISCO, CA, FEBRUARY 27-28, MARCH 1. 1973). INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS INC., NEW YORR. 1973. (LC 69-1628), P 203-205, 3 REFS

A SOFTWARE COMMUNICATION FACILITY FOR AN OPERATING SYSTEM WHICH IS PART OF A NETWORK IS DESCRIBED. OATA PORTS ARE INTRODUCED AS A WAY OF CONTROLLING INFORMATION FLOW BETWEEN TWO PROCESSES IN AN ORDERLY FASHION. THE PURPOSE OF TFIS SYSTEM IS TO ALLOW A USER PROCESS IN THE NETWORK ENVIRONMENT TO CONTROL THE FLOW OF INFORMATION BETWEEN IT AND OTHER OBJECTS IN THE SYSTEM (FILES DR OTHER PROCESSES).

NOIT, JOHN W., E. PEREZ, OESIGN SPECIFICATIONS FOR PWIN NON-FUNCTIONAL NETWORK CONTROL SDFTWARE, MITRE CORP.. WASHINGTON, DC, 30 JUN 72, MC WP-9858, AF F19628-71-C-0002, 24SP, 4 REFS BENOIT.

THIS OCCUMENT CONTAINS THE DESIGN SPECIFICATIONS FOR THE NETWORK CONTROL SOFTWARE TO BE IMPLEMENTED ON THE HONEYWELL 6000 SERIES COMPUTERS FOR THE INITIAL PHASE OF THE PROTOTYPE WWACCS (WORLD #IDE MILITARY COMMAND AND CONTROL SYSTEMI INTERCOMPUTER NETWORK. THIS NETWORK IS MODELEO ON THE APPA NETWORK, AND THIS DOCUMENT DESCRIBES IN DETAIL THE DESIGN OF THE NETWORK CONTROL PROGRAM. OF POSSIBLE INTEREST IS THE DESIGN DECISION TO LOCATE THE IMP INTERACE SOFTWARE IN A FRONT-END COMPUTER (ORIANET 35S) WHILE THE SOFTWARE TO IMPLEMENT THE PROTOCOLS AND PROVIDE INTER-PROCESS COMMUNICATIONS IS LOCATED IN THE MAINFRAME.

FREDERICKSEN, O., R. W. RYNIKER, A COMPUTER NETWORK INTERFACE FOR OS/MVT, INTERNATIONAL BUSINESS MACHINES CORP., Yorktown meights, ny, thomas J. Watson research center, S apr 71, IBM-TJWRC RC-3317, 13P

SOFTWARE IMPLEMENTED UNDER DS/MVT (OPERATING SYSTEM FOF THE 18M 360/370) TO PROVIDE NETWORK FUNCTIONS FOR USER PROGRAMS IS DESCRIBED. THE REPORT PRESENTS A GENERAL DISCUSSION OF THE STRUCTURE OF THAT SOFTWARE. IT'S RELATIONSHI TO THE DEPRATING SYSTEM AND THE DESIGN DECISIONS WHICH WERE MADE TO PROVIDE FOR CONVERSATIONAL COMMUNICATION AND THE TRANSFER OF JOES AND DATA SETS BETWEEN SYSTEMS. ITS RELATIONSHIP

- ODDN, B. K., M. W. WHITELAW, AN OPERATING SYSTEM FOR A COMPUTER NETWORK. (SYONEY, UNIV. OF, (AUSTRALIA)). PROCEECINGS OF FOURTH AUSTRALIAN COMPUTER CONFERENCE. VOLUME I, (ADELAIDE, (AUSTRALIA), AUGUST 11-IS, 1969), GRIFFIN PRESS, NETLEY, (SOUTH AUSTRALIA), 1969 P 255-260, 12 REFS HADOONA BA KAA (ANNOTATION UNDER 3.1.1)
- METCALFE, RCBERT M., STRATEGIES FOR OPERATING SYSTEMS IN COMPUTER NETWORKS, (MASSACHUSETTS INST. OF TECH., CAMBRIDGE, PRDJECT MAC) .

1972 PROCEEDINGS OF THE ACM. VOLUME 1, (BOSTDN. MA. AUGUST 1972), ASSOCIATION FOR COMPUTING MACHINERY, NEW YORK, 1972, P 278-281, 16 FEFS

IN THIS SHORT BUT INFORMATIVE PAPER THREE STRATEGIES FCR CONSIDERATION IN THE FUTURE DEVELOPMENT OF OPERATING SYSTEMS WHICH WILL MAKE I TEM MORE AMENADLE TO NETWORKING ARE OEVELOPED. FIRST, SYSTEMS SHOWLD BE MORE CAPADLE DF OETECTIKG AND RECOVERING FROM COMPONENT MALFUNCTIONS. IT IS POINTED OUT THAT IN THE ARANET AT THE HOST LEVEL REQUESTS FROM THE IMP FOR HOST RETRANSMISSION SOMETIMES RESULT IN CRASHES. SECOND, SINCE CONTROL PROGRAMS IN THE HOSTS RUN AS DAEMONS (BACKGROUND PROCESSES RESPONSIBLE FOR RECOMPING EVENTS IN SYSTEMS SERVICES), OPERATING SYSTEM SHOULD ALLOW DAEMONS TO FUNCTION EFFICIENTLY. THIPD. INTERPROCESS COMMUNICATION IN AN OPERATING SYSTEM SHOULD BE THRDUG- TINN WIRE' COMMUNICATIONS INTERFACES, THAT IS, EXPLICIT GATA EXCHANGES OVER A CONTROLLABLE COMMUNICATIONS PATH LSING WELL-OEFINED PROCEOCLS.

SPIER, MICHAEL J., ELLIDIT I. ORGANICK. THE MULTICS INTERPROCESS COMMUNICATION FACILITY, (MASSACHUSETTS INST. OF TECH., CAMBRIDGE, PRDJECT MAC, MASSACHUSETTS INST. DF TECH., CAMBRIDGE, DEPT, OF ELECTRICAL ENGINEERING), PROCEEDINGS.ACM 200 SYMPOSIUM ON DPERMATING SYSTEMS PRINCIPLES, IPRINCETON, NJ. DCTOBER 20-22, 1969), 1969, P B3-91, 10, PEES

THE MULTICS CAPABILITY FOR INTERPROCESS COMMUNICATION. WHICH OFFERS A CLEAN FACILITY FOR COMMUNICATING BETWEEN PROCESSES WITH MINIMUM EFFORT, IS DISCUSSED, THE METHODOLOGY DESCRIBED APPEARS APPLICABLE TO INTERPROCESS COMMUNICATIONS ACROSS MULTIPLE MOST COMPUTERS IN A NETWORK,

THOMAS, ROBERT H., A RESOURCE SHARING EXECUTIVE FOR THE ARPANET. (BOLT, BERANEK AND NEWMAN INC., CAMBRIDGE, MA), AFIPS CONFERENCE PROCEEDINGS, VOLUME 42, 1973, NATIONAL CCMPUTER CONFERENCE AND EXPOSITION, (NEW YORK, NY, JUNE 4-8, 1973), A FIPS PRESS, NONTVALE, NJ, 1973, AFIPS CONFERENCE PROCEEDINGS, ICC 55-4470], P 155-163, 16 REFS

RSEXEC (RESDURCE SHARING EXECUTIVE) IS A OISTRIBUTED, EXECUTIVE-LIKE SYSTEM THAT RUNS ON TENEX HOST COMPUTERS In the Arra computer network, reserve was designed to facilitate resource sharing among hosts on the Arranet. T Paper discusses the design and development of reserve and more sharing three sitemes it provides to the user. THIS

3.4.3 DATA MANAGEMENT

DERSON, R. H., E. F. HARSLEN, JOHN F. HEAFNER, VINTON G. CERF, JAMES MADDEN, ROBERT N. METCALFE, A. SHDSHANI, JAMES WHITE. D. C. WEDD. THE DATA RECONFIGURATION SERVICE-AN EXPERIMENT IN ADAPTABLE, PROCESS/PROCESS COMMUNICATIC (RAND CORP., SANTA MONICA, CA, CALIFORNIA, UNIV. DF, LOS ANGELES, ILLINDIS, UNIV. DF, URBANA, MASSACHUSETTS INST. DF TECH., CAMBRIDGE, SYSTEM DEVELOPMENT CORP., SANTA MONICA. CA. CALIFORNIA. UNIV. DF, SANTA BARBARA, MITRE CORP., ANDERSON, R. H., E. F. HARSLEM, COMMUNICATION. WASHINGTON. OC). JACKSCN, PETER E., PROCEEDINGS. ACM/IEEE SECOND SYMPDSIUM ON PROBLEMS IN THE DPTIMIZATION OF DATA COMMUNICATION SYSTEMS. (PALD ALTD. CA. DCTOBER 20-22. 1971). 1971. IEEE CAT-71C59-C. P 1-9. 9 REFS

AN INTRODUCTION TO THE PROBLEMS OF DATA COMPATIBILITY IN A NETWORK OF DISSIMILAR COMPUTERS LEADS TO A DESCRIPTION OF DATA RECONFIGURATION SERVICE (ORS) DEING INPLEMENTED ON THE ARPANET. THE ORS ALLOWS A PROGRAMMER TO DEFINE *FORMS* THAT DESCRIBE DATA TRANSFORMATIONS AND STORES THE FORMS BY NAME. A USER CAN THEN EMPLOY THE SERVICE BY CALLING THE FORM TO ACCOMPLISH A PARTICULAR TRANSFORMATION OF A NETWORK DATA STREAM PASSING BETWEEN A USING PROCESS AND A SERVING PROCESS.

CHUEIN.

-UFIN. JEAN CLAUDE. CONTROL CDNCEPTS DF A LDGICAL NETWORK MACHINE FOR DATA BANKS. (I.M.A.G., GRENOBLE, (FRANCE), CII SCIENTIFIC CENTERI. RDSENFELO, JACK L., INFORMATION PROCESSING 74. PROCEEDINGS OF IFIP CDNGRESS 74. 2. SOFTWARE. (STOCKHOLM, (SWEDEN), AUGUST S-10.1974). AMERICAN ELSEVIER PUBLISMING CO.INC., NEW YORK, 1974, P 291-295, 7 REFS

GENERAL NETWORK SERVICES ARE DEFINED WHICH PROVIDE NETWORK USERS WITH INTERFACES TRANSPARENT TO THE NETWORK. THE OBJECTIVE, ULTINATELY, IS TO ALLOW THE COLLECTION OF COMPUTING FACILITIES TO APPEAR AS A SINGLE NETWORK FACILITY, TO CONTROL PROBLEMS SPECIFIC TO A DATA BANK APPLICATION ARE ADDRESSED. (ALSO UNDER 2.3)

FREDERICKSEN, DICK H., DESCRIBING DATA IN A GENERAL-PURPOSE COMPUTER NETWORK, INTERNATIONAL B YCRKTCWN HEIGHTS, NY, THOMAS J, WATSON RESEARCH CENTER, 16 NOV 72, 18M RC-4122, 33P, B REFS BUSINESS MACHINES CORP..

AFTER A GENERAL DISCUSSION OF THE CHARACTERISTICS OF DATA DESCRIPTION IN A SINGLE COMPUTING SYSTEM, THE AUTHOR DISCUSSES ADDITIONAL PROBLEMS OF DATA DESCRIPTION FOR SEVERAL COMPUTING SYSTEMS IN A NETWORK. EXAMPLES OF DIFFERENT

3. 4. 3 DATA MANAGEMENT

APPROACHES TO DATA DESCRIPTION IN NETWORKS ARE TAKEN FROM A REMOTE JOB ENTRY NETWORK, THE 'OS/MUT NETWORK SUBSYSTEM' AND A NETWORK OF DISSIMILAR SYSTEMS. FINALLY THE AUTHOR DISCUSSES THE POSSIBILITY OF NETWORK-ORIENTED 'DATA DESCRIPTION LANGUAGES'. (ALSO UNDER 3.5.2)

ILLER, EDWARD F., JR., EDWARD L. PRICHARD, PROCESS CONTROL AND FILE MANAGEMENT PROBLEMS IN LARGE MINICOMPUTER NETWORKS, (GENERAL RESEARCH CORP., SANTA BARBARA, CA), COMPCON 73 - SEVENTH ANNUAL IEEE COMPUTER SOCIETY INTERNATIONAL CONFERENCE, DIGEST OF PAPERS, "COMPUTING METWORKS FROM MINIS THROUGH MANIS - ARE THEY FOR REAL?", (SAN FRANCISCO, CA, FEBRUARY 27-20, NARCH I, 1973), INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS INC., NEW YORK, 1973, (LC 60-1628), P 199-201, 3 REFS MULER, FOWARD F., JR.,

VARIOUS PROBLEMS IN CONTROL OF PROCESSES AND FILE MANAGEMENT FOR MINICOMPUTER NETWORKS WITH 100 TO 10,000 PROCESSORS ARE DISCUSSED IN THIS ARTICLE. THE THREE MAJOR AREAS CONSIDERED ARE THE OVERALL NETWORK STRUCTURE. THE CONTROL STRUCTURE. AND THE FILE STRUCTURE. AREAS FOR FURTHER RESEARCH ARE OUTLINED. (ALSO UNDER 3-1-1)

SHOSHANI, ARIE, DATA SHARING IN COMPUTER NETWORKS. (SYSTEM OEVELOPMENT CORP., SANTA MONICA, CA), 1972 WESCEN TECHNICAL PAPERS. SESSION 7: COMPUTER NETWORKS. (PRESENTED AT, WESTERN ELECTRONIC SHOW AND CONVENTION. SEPTEMBER 19-22, 1972), 1972. P 7-4-1--7-4-B, 19 REFS (ANDIATION UNDER 3.5.2)

4.4 USER-ORIENTED

BENOIT, JOHN W., ERIKA GRAF-WEBSTER, EVOLUTION OF NETWORK USER SERVICES--THE NETWORK RESOURCE MANAGER, (MITRE CORP., NCLEAN, VA), PRECEEDINGS OF THE 1974 SYMPOSIUM, COMPUTER NETWORKS: TRENOS AND APPLICATIONS, (GAITHERSBURG, MO, MAY 23, 1974),

INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YORK, 1974, 74CHOB35-9C, P 21-24, 6 REFS (ANNOTATION UNDER 2.3)

VARCUS. RICHARD S., NETWORK ACCESS FOR THE INFORMATION RETRIEVAL APPLICATION. (MASSACHUSETTS INST. OF TECH., CAMBRIDGE. LECETRONIC SYSTEMS LAB.). ELECTRONIC SYSTEMS LAB.). 1975 IEEE INTERCON CONFERENCE RECORD. (NEW YORK, APRIL B-10, 1975). INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YORK, 1975, P 25-4-I--25-4-7. 12 REFS

THE AUTHOR DISCUSSES ASPECTS OF ACCESSING HETEROGENEOUS RETRIEVAL SYSTEMS WHICH MAINTAIN MULTIPLE HETEROGENEOUS BIBLIOGRAPHIC DATA BASES, THE PROBLEMS ASSOCIATED WITH USER ACCESS TO A NUMBER OF SYSTEMS ARE CONSIDERED AS ARE SEVERAL POSSIBLE SOLUTIONS TO THESE PROBLEMS. IN ACOITION AN EXPERIMENTAL INTERFACE IS DESCRIBED WHICH CURRENTLY CONNECTS TO FOUR RETRIEVAL SYSTEMS. (ALSO UNDER 2.3)

- SOME TECHNICAL CONSIDERATIONS FOR IMPROVED SERVICE TO COMPUTER NETWORK USERS, (NATIONAL BUREAU OF PYKE. THOMAS N. JR a ACE FINDARS WASFINGTON, OC, INST. FOR COMPUTER SCIENCES AND TECHNOLOGY, COMPCON 73 - SEVENTH ANNUAL IEEE COMPUTER SCIENCES AND TECHNOLOGY, COMPCON 73 - SEVENTH ANNUAL IEEE COMPUTER SCIETY INTERNATIONAL COMPREMENCE, DIGEST OF PAPERS, *COMPUTING NETWORKS FROM MINIS THROUGH MAXIS -- ARE THEY FOR REAL?*, (SAN FRANCISCO, CA, FEBRUARY 27-28, MARCH I, 1973), INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS INC., NEW YORK, 1973, (LC 68-1628), P S3-55, 9 REFS (ANNOTATION UNDER S.7)
- DSENTHAL, ROBERT, SHIRLEY W, WATKINS, AUTOMATEO ACCESS TO NETWORK RESOURCES, A NETWORK ACCESS MACHINE, (NATIONAL Bureau of standaros, Washington, oc. Inst. for computer sciences and technology). Proceedings of the 1974 symposium. Computer Networks: Trenos and Applications, (gaithersburg, no. may 23, 1974), Institute of Electrical and Electronics Engineers Inc., New York, 1974, 74(Hob35-90, P 47-50, 3 REFS ROSENTHAL . ROBERT.

VINICOMPUTER-BASED NETWORK ACCESS MACHINE (NAM) HAS BEEN DEVELOPED AT THE NATIONAL BUREAU OF STANDARDS TO SIMPLIFY A MINICOMPUTER-BASED NETWORK RESOURCES THE SHACKINE (NAM) HAS BEEN DEVELOPED AT THE NATIONAL BUREAU OF STANDARDS TO SIMPLIFY ACCESS TO COMPUTER-BASED NETWORK RESOURCES. THE BASIC ELEMENTS OF THE NAM ARE DESCRIBED IN THIS PAPER. THES ARE (I) THE MACRO EXPANDER, WHOSE FUNCTION IS TO CREATE THE SPECIFIC MESSAGES USED TO ACOULRE THE RESOURCE REDUESTED, AND (2) THE RESPONSE ANALYZER, WHICH USES THE EXPECTED RESPONSES, GENERATED BY THE MACRO EXPANDER, TO ENDER SAITERATORY PROGRESS TOWARD THE ACOULSITION OF THE DESIRED RESOURCE. THE USER INTERFACE TO NAM IS ALSO DESCRIBED, INCLUDING THE COMMUNICATION PATHS THROUGH NAM FROM THE USER TO THE REMOTE ACCESS SYSTEM.

ROSENTHAL, ROBERT, ACCESSING ONLINE NETWORK RESOURCES WITH A NETWORK ACCESS MACHINE, (NATIONAL BUREAU OF STANDARDS, SENTRAL, NUBERT, ACCESSING ONLINE NETBURK RESUDRES WITH A NETBURK ACCESS MACTINE, (NATIONAL BUREAU OF STANDARD, Washington, GC, INST. För computer sciences and technology, 1975 ieee intercon comperence record, (New York, April 8–10, 1975), institute of electrical and electronics engineers Inc., New York, 1975, P 25-31-1-25-3-4, 7 REFS

THIS PAPER DESCRIBES A NETWORK ACCESS MACHINE (NAM), WHICH ASSISTS USERS OF ONLINE COMPUTER NETWORKS IN ACCESSING Remote resources, the nan, consisting of a dedicated minicomputer with special software, provides such functions as Network communication link establishment, network login, host system selection and login, service or resource selection and INITIALIZATION SERVICE TERMINATION AND LOGOFF.

ROSENTHAL, ROBERT, NETWORK ACCESS TECHNIOUES; A REVIEW, (TO BE PRESENTED AT THE, AFIPS NATIONAL COMPUTER CONFERENCE, NEW YORK, NY, JUNE 1976), NATIONAL BUREAU OF STANDARDS, WASHINGTON, DC, INST. FOR COMPUTER SCIENCES AND TECHNOLOGY, 1976, NSF OCR-72-01206, 14P, 28 REFS

WITH EMPHASIS ON CURRENTLY OPERATING AND PLANNED SYSTEMS THAT ASSIST USERS IN ACCESSING AVAILABLE NETWORK SERVICES, This paper identifies the techniques used in network access devices, by examining these devices, the trend toward improving The interface between the user and the computer is brought more clearly into focus and up to date.

3.4.5 SOFTWARE TESTING

STILLMAN, RCNA B., DR., BELKIS LEONG-MONG, SOFTWARE TESTING FOR NETWORK SERVICES, NATIONAL BUREAU OF STANOAROS, Washington, OC, Inst. For computer sciences and technology, Jul 7s, NBs tn-B74, NSF ag-350, (LC 7s-600046), 40P, 9 REFS

THIS REPORT IS A FIRST STEP TOWARD IDENTIFYING EFFECTIVE SOFTWARE TEST AND MEASURMENT TOOLS, AND DEVELOPING A GUIDE FOR THEIR USAGE NETWORK WIDE. THE UTILITY OF TWO TOOLS, THE NBS FORTHAN TEST ROUTINES AND THE NBS ANALYZER, IS STUDIED EXPERIMENTALLY, AND INDICATIONS OF THEIR FOLE IN SYSTEMATIC TESTING IN A NETWORKING ENVIRONMENT ARE GIVEN.

WOOD, DAVID C., TEST AND EVALUATION CRITERIA FOR NETWORK SOFTWARE, (NITRE CORP., NCLEAN, VA), PROCEEDINGS OF THE 1974 SYMPOSIUM, COMPUTER NETWORKS: TRENOS AND APPLICATIONS, (GAITHERSBURG, MO, MAY 23, 1974), INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YORK, 1974, 74CHOB3S-9C, P 44-46, I REFS

THIS PAPER BRIEFLY DESCRIBES THE TEST AND EVALUATION APPROACH BEING USED FOR THE NETWORK SOFTWARE IN THE MAIN COMPUTERS OF A PACKET SWITCHED NETWORK, THE PROTOTYPE WWCCCS WORLDWICE MILITARY COMMAND AND CONTROL SYSTEM) INTERCO NETWORK (PWIN), IT IDENTIFIES THE PUNCTIONAL CAPABILITIES OF THE NETWORK CONTROL SOFTWARE BEING USED TO EVALUATE THE RELIABILITY AND PERFORMANCE OF THE NETWORK SOFTWARE; AND OUTLINES THE TEST PROGR TCOLS DEVELOPED TO SUPPORT THE TEST AND EVALUATION EFFORT. INTERCOMPUTER

3.4.9 OTHER

FLETCHER, JOHN G., OCTOPUS SOFTWARE SECURITY, (LAWRENCE LIVERNORE LAB., LIVERNORE, CA), COMPCON 73 - SEVENTH ANNUAL IEEE COMPUTER SOCIETY INTERNATIONAL COMPERENCE. DIGEST OF PAPERS, *COMPUTING NETWORKS FROM MINIS THROUGH MAXIS -- ARE THEY FOR REAL?*, (SAN FRANCISCO, CA, FEBRUARY 27-28, MARCH I, 1973), INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS INC., NEW YORK, 1973, (LC 60-1620), P 61-62, I REFS (ANNOTATION UNDER 5.6)

FREEO, ROY N., PROTECTION OF PROPRIETARY SOFTWARE PROGRAMS IN THE UNITED STATES, (WIDETT AND WIDETT, BOSTON, MA), WINKLER, STANLEY, COMPUTER COMMUNICATIONS: IMPACTS AND IMPLEMENTATION. THE FIRST INTERNATIONAL CONFERENCE ON COMPUTER COMMUNICATION, (WASHINGTON, OC, OCTOBER 24-26, 1972), INTERNATIONAL CONFERENCES ON COMPUTER COMMUNICATION, 1972, ICCC 72-CHC-650-BC, NSF GJ-33239, P 403-408, 6 REFS (ANNOTATION UNDER 5.6)

FAIBT. L., A. MULLERY, DATA DESCRIPTIVE LANGUAGE FOR SHARED DATA, INTERNATIONAL BUSINESS MACHINES CORP., YORKTOWN

3.4.9 OTHER

HEIGHTS, NY, THOMAS J. WATSON RESEARCH CENTER, 28 JUL 71, IBM-TJWRC RC-3476, ISP (ANNOTATION UNDER 4-2-D)

- HAFRIS, CAVIO 0., JAMES A. HOWARO, ROGER C. WOOD, RESEARCH IN DN-LINE COMPUTATION, CALIFORNIA, UNIV. DF. SANTA BARBARA. 3D SEP 71, 1 JUL 7D-3I AUG 71, AF F19620-70-C-D314, (AFCRL 71-053D, AD-735 3D0), 86P, 3D REFS (ANNOTATION UNDER 4.2.D)
- KRILOFF, HARVEY Z., A HIGH-LEVEL LANGUAGE FOR USE WITH MULTI-COMPUTER NETWORKS, (ILLINDIS, UNIV. OF, CHICAGO), AFIPS CONFERENCE PROCEEDINGS. VOLUME 42, 1973. NATIONAL COMPUTER CONFERENCE AND EXPOSITION. (NEW YORK, NY, JUNE 4-B, 1973), AFIPS PRESS, MONTVALE, NJ, 1973, AFIPS CONFERENCE PROCEEDINGS, (LC SS-44701), P 149-153, 11 REFS

IN AN EFFORT TO DEVELOP A SOFTWARE SYSTEM THAT ALLOWS THE AVERAGE USER TO MAKE EFFECTIVE USE OF A COMPUTER NETWORK, A NETWORK VERSION OF THE SPEAKEASY SYSTEM WAS DEVELOPED. THIS PAPER DISCUSSES THE NEED FOR SUCH A SYSTEM AND DESCRIBES THE SPEAKEASY SYSTEM DEVELOPED. NET

PICKERING, G. E., E. G. MUTSCHLER, G. A. ERICKSON, MULTICIMPUTER PRDGRAMMING FOR A LARGE SCALE REAL-TIME DATA PROCESSING SYSTEM. (SPERRY RAND CDRP., SAN DIEGO. (A. UNIVAC DIV.), AFIPS PROCEEDINGS. 1964 SPING JDINT COMPUTER CONFERENCE. VOLUME 2S. (WASHINGTON, DC. APRIL 1964), SPARTAN BODKS INC., BALTIMDRE, MO. 1964, AFIPS CDNFERENCE PROCEEDINGS, (LC SS-44701), P 445-461

THIS REPORT DISCUSSES MULTICDMPUTER PROGRAMMING TECHNIQUES CONCEIVED AND IMPLEMENTED IN A LARGE SCALE TACTICAL DATA SYSTEM DEVELOPED FOR THE U.S.NAVY. TWD MAIN AREAS RECEIVE CONSIDERATION: EXECUTIVE CONTROL IN A MULTICOMPUTER COMPLEX AND DATA TRANSFER BETWEEN COMPUTERS. ASSIGNMENT AND DISTRIBUTION DF TASKS IS NOT DISCUSSED. ON THE SUBJECTS OF CONTROL AND TRANSFER. CONSIDERABLE DETAIL IS PROVIDED.

SEDELOW, SALLY YEATES, WALTER A, SEDELOW, JR., LANGUAGE RESEARCH AND THE COMPUTER: A STUDY OF THE CONCEPT OF A NATIONAL CENTER OR NETWORK FOR COMPUTATIONAL RESEARCH ON LANGUAGE (CE-NCOREL), KANSAS, UNIV, OF, LAWRENCE, 1972, NSF GJ-2BS99, 467P, 41 REFS (ANNOTATION UNDER 4,2,9)

SINGER, C. R. M., THE USER DEPARTMENT AND THE COMPUTER. (INTERNATIONAL COMPUTERS LTD., MIDDLESEX, (ENGLAND)), WINKLER, STANLEY, COMPUTER COMMUNICATIONS: IMPACTS AND IMPLEMENTATION. THE FIRST INTERNATIONAL CONFERENCE ON COMPUTER COMMUNICATION, (WASHINGTON, DC, DCTOBER 24-26, 1972), INTERNATIDNAL CONFERENCES DN COMPUTER COMMUNICATION, 1972, ICCC 72-CHD-590-BC, NSF GJ-33239, P 397-402

A DATA COLLECTION SYSTEM CALLED 'OATASTREAM' IS DESCRIBED AND ITS ADVANTAGES OVER MANUAL TECHNIQUES ARE CITEO. THE PAPER SCUNDS VERY MUCH LIKE A SALES-PITCH AND IS NOT PARTICULARLY EXCITING TECHNOLOGICALLY,

N VLECK, THOMAS H., COMPUTER LANGUAGES FOR THE COMPUTER UTILITY, (MASSACHUSETTS INST. OF TECH., CAMBRIDGE), INTERDISCIPLINARY CONFERENCE ON MULTIPLE ACCESS COMPUTER NETWORKS, (AUSTIN, TX, APRIL 20-22, 197D), APR 7D, P S-2-I--S+2-S, B REFS

A FEW TECHNICAL AND ECONOMIC CONSIGERATIONS ARE INTRODUCED RELATED TO MAKING LANGUAGE COMPILERS AVAILABLE FOR 'THE COMPUTER UTILITY', LOOSELY DEFINED AS AN INTERACTIVE SYSTEM. THESE CONCEPTS ARE THEN APPLIED TO NETWORKS OF COMPUTERS WITH THE STATED BENEFITS OF LDAD SHARING AND MULTI-PROCESS SOLUTIONS TO A PROBLEM. ALL DISCUSSIONS ARE BRIEF AND INCOMPLET. (ALSD UNDER 4.3)

3.5 PRCTOCOLS

CERF, VINTON G., AN ASSESSMENT OF ARPANET PRCTOCOLS. (STANFORO, UNIV. OF, CA). THE SECOND JERUSALEM CONFERENCE ON INFORMATION TECHNOLOGY, (JERUSALEM, (ISRAEL), JULY 29-AUSGUST 1, 1974), 1974, P 653-664, 14 REFS (ANNOTATION UNCER 3.1.2)

3.5.D GENERAL

- FARBER, CAVID J., KENNETH C. LARSON, NETWORK SECURITY VIA DYNAMIC PROCESS RENAMING, (CALIFORNIA, UNIV. DF, IRVINE, DEPT. OF INFORMATION AND COMPUTER SCIENCE). FDURTH DATA COMMUNICATIONS SYMPOSIUM. NETWORK STRUCTURES IN AN EVOLVING DPERATIONAL ENVIRONMENT, (DUEBEC CITY, (CANADA), OCTOBER 7-9, 1975). INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YORK, 1975, IEEE 75-CHIDDD1-7-DATA. P 0-13--04-08.3 REFS (ANNOTATICN UNDER 5.6)
- FIFE, DENNIS W., STANDARDS ANALYSIS FDR FUTURE WWMCCS COMPUTER NETWORKING, NATIONAL BUREAU DF STANDARDS, WASHINGTON, OC, Systems and Software Div., 30 aug 74, NBSIR 74-S70, 1D7P, 3D REFS (ANNOTATION UNDER 5.5)
- JEFFERY, LAWRENCE R., SOFTWARE: THE DASH IN COMPUTER--COMMUNICATIONS, (MITRE CDRP., BEDFDRD, MA), IEEE 1974 NATIONAL TELECOMMUNICATIONS CONFERENCE, (SAN DIEGO, CA, DECEMBER 2-4, 1974), INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YDRK, 1974, IEEE P-74CHO9D2-7-CSCB, (LC S7-2D724), P 476-481, 2D REFS (ANDTATICN UNDER 1.5)

MCKAY, ODUGLAS B., DONALO P. KARP, A NETWORK/440 PROTOCOL CONCEPT. INTERNATIONAL BUSINESS MACHINES CORP., YORKTOWN HEIGHTS, NY, THOMAS J. WATSON RESEARCH CENTER, JUL 71, IBH RC-3432, ISP

THE PROTOCOLS ARE DESCRIBED FOR DATA TRANSFER BETWEEN INDEPENDENT SYSTEMS ON NETWORK/44D, A NETWORK WITH CENTRAL CONTROL. INCLUDING ERROR HANDLING, MESSAGE FORMAT AND FILE TRANSFER PROTOCOL.

3. 5. I LOW LEVEL PROTOCOLS

ROBERT H. STOTZ, PROCEOURES AND STANDARDS FOR INTER-COMPUTER COMMUNICATIONS, (MASSACHUSETTS INST, BHUSHAN . ABHAY K ... NORMAY, ABMAY K., RUDENI M. SIDIAI FROLEDONES AND SIMUMOSI ON INCOMPOSITE COMPOSITE CONTRACTORY (AND AND A AND A

THIS DISCUSSION OF CHARACTER CODES AND TRANSMISSION PROCEDURES ATTEMPTS TO ISOLATE THE FACTORS INVOLVED IN INTER-COMPUTER COMMUNICATION THAT MAY JUSTIFY ADDITIONS TO AND OEVIATIONS FROM ANSI STANDARDS AND ORAFT STANDARDS. SPECIAL ATTENTION IS GIVEN TO COMMUNICATION CONTROL PROCEDURES, CHARACTER AND BINARY DATA TRANSPARENCY AND ERROR CONTROL MECHANISMS, INCLUDING A COMPARISON OF THE LONGITUDINAL BLOCK PARITY CHECK TO THE MORE CAPABLE CYCLIC REDUNDANCY CHECK. (ALSO UNDER 3.2.9, S.S)

BINGER, RICHARG, ALCHANET PROTOCOLS, MAWAII, UNIV. OF, MONOLULU, ALCHA SYSTEM, SEP 74, HU TR-B74-7, NASA NAS2-6700, 36P. 7 REFS

THIS REPORT DESCRIBES THE PROTOCOL FUNCTIONS USED FOR INTERACTIVE USER NODES IN THE ALDHANET. A SPECIAL LOADING PROTOCOL IN ALSO DEFINED FOR AUTOMATICALLY LOADING PROGRAMMABLE REMOTE UNITS IN THE SYSTEM.

INGER, R., N. ABRAMSON, F, KUG, A. OKINAKA, O. WAX, ALQHA PACKET BROADCASTING-A RETROSPECT, (BCLT, BERANEK AND NEWAN INC., CAMBRIDGE, MA, MAWAII, UNIV. OF, HONOLULU, ALOMA SYSTEM). AFIPS CONFERENCE PROCEEDINGS. VOLUME 44, 1575. NATIONAL COMPUTER CONFERENCE, (ANAHEIM, CA, MAY 19-22, 1975), AFIPS PRESS, MONTVALE, NJ. 1975. (LC SS-447DI), P 203-215, 15 REFS (ANNOTATION UNDER 3,1-2) EINDER. R...

OANTHINE, A., E. ESCHENAUER, INFLUENCE ON THE NOOE BEHAVIOUR OF THE NOOE-TO-NOOE PROTOCOL, (LIEGE, UNIV. OF, (BELGIUM), CTN-EIA, (BELGIUM)), FOURTH DATA COMMUNICATIONS SYMPOSIUM, NETWORK STRUCTURES IN AN EVOLVING OPERATIONAL ENVIRONMENT, (QUEBEC CITY, (CANADA), OCTOBER 7-9, 1975), INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YORK, 1975, IEEE 7S-CHIDOD1-7-DATA, P 7-1-7-8, 11 REFS (ANNOTATION UNDER 2.1.1)

DATAPAC STANDARD NETWORK ACCESS PROTOCOL, TRANS-CANADA TELEPHONE SYSTEM, COMPUTER COMMUNICATIONS GROUP, 30 NOV 74, SBP

3.5.1 LOW LEVEL PROTOCOLS

(ANNOTATION UNDER S.S)

KARP, GONALG P., SALOMON F. SERGUSSI, A COMMUNICATIONS INTERFACE FOR COMPUTER NETWORKS, (INTERNATIONAL BUSINESS MACHINES CORP., YORKTONN HEIGHTS, NY, GEPT. OF COMPUTER SCIENCEJ, JACKSON, PETER E., PROCEEGDINGS, ACM/IEEE SECOND SYMPOSIUM ON PROBLEMS IN THE OPTIMIZATION OF GATA COMMUNICATION SYSTEMS. (FALO ALTC, CA. OCTOBER 20-22, 1971), 1971, IEEE CAT-71CS9-C. P 117-123, 3 REFS

A COMMUNICATIONS DISCIPLINE OR FIRST LEVEL PRCTOCOL FOR NETWORKS OF COMPUTERS IS DESCRIBED. IT IS ESPECIALLY SUITABLE FOR HALF-COPLEX. ALTHOUGH AGAPTABLE TO FULL-DUPLEX TRANSMISSION. IT IS STATED THAT IMPLEMENTATION IS UNDER WAY FOR IBM NETWORK/AGO.

KARP, GONALC P., SALOMON F. SEROUSSI, A COMMUNICATIONS INTERFACE FOR COMPUTER NETWORKS, INTERNATIONAL BUSINESS MACHINES CORP., YORKTDWN HEIGHTS, NY, THOMAS J. WATSON RESEARCH CENTER, 24 JUN 71, IBM-TJWRC RC-3417, ISP, I REFS

THE CCMMUNICATIONS LINE PROTOCOL FOR IBM*S RESEARCH NETWORK/440 IS PRESENTED. THE PROTOCOL IS DESIGNED TO FACILITATE INTERPROCESS COMMUNICATIONS AND IS DEFINED WITH FLEXIBILITY AS THE FDREMDST REQUIREMENT.

KLEINRDCK, LEONARD, HOLGER OPDERBECK, THROUGHPUT IN THE ARPANET - PROTOCOLS AND MEASUREMENT, (CALIFORNIA, UNIV. OF, LOS ANGELES, DEPT. OF COMPUTER SCIENCE, TELENET CORP., WASHINGTON, OC), FDURTH DATA COMMUNICATIONS SYMPOSIUM, NETWORK STRUCTURES IN AN EVDLVING DPERATIONAL ENVIRONMENT, (QUEBEC CITY, (CANADA), OCTOBER 7-9, 1975), INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YORK, 1975, IEEE 75-CH10001-7-DATA, P 6-1-6-11, 13 REFS (ANNOTATION UNDER 2:1.3)

MCKENZIE, A. M., SOME CDMPUTER NETWORK INTERCONNECTION ISSUES, (BOLT, BERANEK AND NEWMAN INC., CAMBRIDGE, MA), AFIPS CONFERENCE PROCEEDINGS, VOLUME 43, 1974, NATIDNAL COMPUTER CONFERENCE, (CHICAGO, IL, MAY 6-10, 1974), AFIPS PRESS, MONTVALE, NJ, 1974, AFIPS CONFERENCE PROCEED(NGS, (LC SS-44701), P 857-859, 9 REFS

THE AUTHOR BRIEFLY ADDRESSES A NUMBER OF ISSUES CONCERNING THE INTERCONNECTION OF DISSIMILAR COMPUTERS THROUGH DISSIMILAR COMMUNICATIONS NETWORKS, BECAUSE STANDARDS DEVELOPMENT TAKES TIME, HE DOES NOT WANT PRIVATE ARRANGEMENTS TO BE CLOSED DFF, AMDNG THE ISSUES ADDRESSED ARE THROUGHPUT VS, DELAY, RETRANSMISSION AND ACKNOWLEDGEMENT, NETWORK TIMING, COMMUNICATIONS EFFICIENCY VS, HOST PROCESSING, SIMPLICITY AND TABLE SPACE, AND FRAGMENTATION AT NETWORK BOUNDARIES.

NAKAJO, TCSHIHIKO, TETSUO NAGATA, HIROTARO OHBA, YUTAKA YOSHIDA, DN THE PACKET INTERLEAVED INTERFACE BETWEEN PACKET SWITCHED NETWORK AND CDMPUTERS. (FUJITSU LTD., KAWASAKI, (JAPAN), NIPPDN TELEGRAPH AND TELEPHDNE PUBLIC CORP., MUSASHINO, (JAPAN), MUSASHINO ELECTRICAL COMMUNICATION LAB.), DATA NETWORKS: ANALYSIS AND DESIGN. THIRO DATA COMMUNICATIONS SYMPOSIUM, (ST. PETERSBURG, FL. NOVEMBER 13-15, 1973), INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YORK, 1973, (EEE CN-73-CHOB2B-4C, P 104-112, 6 REFS

THIS PAPER DESCRIBES A STUDY OF TRANSMISSION CONTROL PROCEDURES FOR COMPUTER-TO-COMPUTER AND COMPUTER-TO-TERMINAL COMMUNICATION THROUGH A PUBLIC PACKET SWITCHED NETWORK. FOUR TYPES OF BASIC DATA LINKS ARE DEFINED AND THE FUNCTIONS REQUIRED FOR EACH TYPE ARE DISCUSSED.

PRICE, W, L., SIMULATION OF A PACKET-SWITCHED DATA NETWORK OPERATING WITH A REVISED LINK AND NODE PROTOCOL, NATIONAL PHYSICAL LAB., TEDDINGTON, (ENGLAND), DIV. DF COMPUTER SCIENCE, APR 73, NPL CDM-68, 40P, 6 REFS

A NODE AND LINK PROTOCOL IS GIVEN FOR A PACKET-SWITCHED DATA NETWORK. THE FULL LOGICAL STRUCTURE OF THE SIMULATOR TO TEST SUCH A PROTOCOL IS ALSO GIVEN, RESULTS OF THE SIMULATION SHOW THAT: (1) IF PRIORITY IS GIVEN TO THROUGH TRAFFIC THE NETWORK CAN HANDLE HEAVY TRAFFIC: (2) MULTPLE-PACKET TRANSMISSION IS PERERABLE TO PACKET-TA-TIME TRANSMISSION; AND (3) USING FIXED ROUTING, A ROUTING MATRIX WHICH SPREADS THE LOAD MORE EVENLY BETWEEN THE NDDES WAS MORE SUCCESSFUL.

- RDSENBLUM. STANLEY R., PROGRESS IN CONTROL PROCEDURE STANDARDIZATION. (HONEYWELL INFORMATION SYSTEMS INC., FRAMINGHAM,
- NA). JACKSCN. PETER E., PROCEEDINGS. ACH/IEEE SECOND SYMPOSIUM ON PROBLEMS IN THE OPTIMIZATION OF DATA COMMUNICATION SYSTEMS. (PALD ALTG. CA. OCTOBER 20-22. 1971). 1971. IEEE CAT-71CS9-C. P 1S3-159. 2 REFS (ANNOTATION UNDER S.S)
- SMAW, R. T., BASIC CONTROL PROCEDURES FOR DIGITAL DATA TRANSMISSION, (INTERNATIONAL COMPUTERS LTD., LONDON, (ENGLAND)), INFORMATION PROCESSING 68: PROCEEDINGS OF IFIP CONGRESS 1968. VOLUME 2--HARDWARE, APPLICATIONS, LEDINBURGH, (SCOTLAND), AUGUST S-10, 1968), NORTH-HOLLAND PUBLISHING CO., AMSTERDAM, (NETHERLANDS), 1969, IFIP CONGRESS PROCEEDINGS, (LC 65-24118), P 728-733, 2 REFS

DIGITAL DATA TRANSMISSION OVER PHONE LINES AND RELATED CONTROL PROCEDURES ARE DISCUSSED. A SYSTEM IS DESCRIBED IN WHICH A COMMON PATH INTERCONNECTS A NUMBER OF TERMINAL INSTALLATIONS AND INCLUDES AT LEAST ONE COMPUTER. INDIVIDUAL TERMINALS ARE GIVEN DETAILED RESPONSIBILITIES THROUGH WELL-DEFINED PROCEDURES AND MESSAGE STRUCTURES. POLLING SELECTION AND INFORMATION TRANSFER PROCESSES ARE DETAILED FOR A MULTI-POINT LINK WITH ONE CONTROL TERMINAL.

3.5.2 FIGE LEVEL PROTOCOLS

CARR, STEPHEN, STEPHEN D, CROCKER, VINTON G, CERF, HOST-HOST COMMUNICATION PROTOCOL IN THE ARPA NETWORK, (UTAH, UNIV, OF, SALT LAKE CITY, CALIFORNIA, UNIV, OF, LOS ANGELES), AFIPS PROCEEDINGS, 1970 SPRING JCINT COMPUTER CONFERENCE, VOLUME 36, (ATLANTIC CITY, NJ, MAY S-7, 1970), AFIPS PRESS, MONTVALE, NJ, 1970, AFIPS CONFERENCE PROCEEDINGS, (LC 55-44701), P 589-598, 3 REFS

THIS RELATIVELY EARLY DESCRIPTION OF THE ARPA NETWORK HOST-HOST PROTOCOL DOES NOT INCLUDE MOST-MOST FLOW CONTROL, WHICH WAS OVERLOOKED AT THAT TIME. IN THIS PAPER IT WAS ASSUMED THAT ALL HOSTS ARE INTERACTIVE TIME-SHARING SYSTEMS. THIS SHOWS THE LACK OF ATTENTION GIVEN TO REMOTE JOB ENTRY AND DATA TRANSFER AT THAT TIME. ALTHOUGH A PRINCIPAL EARLY NETWORK NODE. THE UCLA IBM 360/91 WAS NOT A TIME-SHARING SYSTEM. THE BASIC ASSUMPTION OF PROLONGED CONVERSATION ON EACH HOST-HOST LINK IS MADE. THE NETWORK INTERFACE LANGUAGE CONCEPT. IN WHICH INTERACTIVE FRONT ENDS ARE PLACED AT USER SITES, MAS SINCE FALLEN BY THE WAYSIDE, ESPECIALLY WITH THE (NTRODUCTION OF THE TIP.

CROCKER, STEPHEN D., JOHN F. HEAFNER, ROBERT M. METCALFE, JONATHAN B. POSTEL, FUNCTION-DRIENTED PROTOCOLS FOR THE ARPA COMPUTER NETWORK, (ADVANCED RESEARCH PROJECTS AGENCY, WASHINGTON, DC, RAND CORP., SANTA MONICA, CA. MASSACHUSETTS INST. DF TECH., CAMBRIDGE, CALIFORNIA, UNIV. OF, LOS ANELES), AFIPS COMPERENCE, 1972 SPRING JOINT COMPUTER CONFERENCE, VOLUME 40, (ATLANTIC CITY, NJ, MAY 16-18, I972), AFIPS PRESS, MONTVALE, NJ, 1972, AFIPS CONFERENCE PROLEEDING, (LC 55-44701), P 271-279, IJ REFS

THIS PAPER DESCRIBES SOME OF THE USER LEVEL PROTOCOLS ON THE ARPANET, INCLUDING THE EXISTING TELNET AND THE PROPOSED FILE TRANSFER AND REMOTE JOB ENTRY (RJE) PROTOCOLS. TELNET FEATURES DISCUSSED ARE THE CHARACTER SET, CHARACTER ECHOING, ESTABLISHING CONNECTIONS, AND SOME INTRIGUING THOUGHTS ON ATTENTION MANDLING. THE FILE TRANSFER PROTOCOL WAS UNSPECTIFIED WHEN THIS WAS WRITTEN, BUT A METHOD OF TRANSFERING FILES THROUGH THE USE OF TELNET IS DESCRIBED. IMPLEMENTATION PLANS ARE DESCRIBED THAT WOULD GIVE A USER THE ABILITY TO LIST A REMOTE DIRECTORY, SEND A LOCAL FILE, RETRIEVE A REMOTE FILE, RENAME A REMOTE FILE, AND DELETE A REMOTE FILE. REMOTE JOB ENTRY, WH(CH USES THE F(LE TRANSFER PROTOCCL, IS ALSO DESCRIBED.

FREDERICKSEN, DICK H., DESCRIBING DATA IN A GENERAL-PURPOSE COMPUTER NETWORK, INTERNATIONAL BUSINESS MACHINES CORP., YORKTOWN FEIGHTS, NY, THOMAS J. WATSON RESEARCH CENTER, IG NOV 72, IBM RC-4122, 33P, B REFS (ANNOTATION UNDER 3.44-33

NEUMANN, A. J., A BASIS FOR STANDARDIZATION OF USER-TERMINAL PROTOCOLS FOR COMPUTER NETWORK ACCESS, NATIONAL BUREAU OF STANGARDS, WASHINGTON, DC. SYSTEMS AND SOFTWARE DIV., JUL 75, NBS TN-877. (LC 75-600052), 29P, 5 REFS (ANNOTATION UNDER 5.5)

OHBA, HIROTARO, YUTAKA YOSHIDA, TOSHIHIKO NAKAJO, TETSUO NAGATA, ON THE PACKET-INTERLEAVED INTERFACE BETWEEN PACKET-SWITCHED NETWORK AND COMPUTERS.(PRESENTED AT THE, THIRD DATA COMMUNICATIONS STHPOSIUM ON DATA NETWORKS ANALYSIS AND DESIGN. ST. PETERSBURG. FL. NOVEMBER 197. (NTT. TOKYO, (JAPAN), DATA COMMUNICATIONS BUREAU, NTT. TOKYO, (JAPAN), MUSASHIND ELECTRICAL COMMUNICATION LAB., FUJITSU LTO., KAMASAKI, (JAPAN), IEEE TRANSACTIONS ON COMMUNICATION VOL COM-22, ISSUE 10, DCT 74. P 1671-1675, 6 REFS

THIS PAPER DESCRIBES A STUDY OF TRANSMISSION CONTROL PROCEDURES FOR COMPUTER-TO-COMPUTER AND COMPUTER-TO-TERMINAL COMMUNICATION THROUGH A PUBLIC PACKET-SWITCHED NETWORK. A TRANSMISSION CONTROL METHOD AND A CALL CONTROL METHOD A PACKET-SWITCHED NETWORK AND COMPUTERS ARE PROPOSED FOR THE PACKET-INTERLEAVED COMMUNICATION ON THE BASIS OF THE HOLC PROCEDURE. RUSCHITZKA, M. G., R. S. FABRY, THE PRIME MESSAGE SYSTEM, (CALIFORNIA, UNIV. DE. BERKELEY, COMPUTER SYSTEMS DESEARCH

PROJECT). SEVENTH ANNUAL IEEE COMPUTER SOCIETY INTERNATIONAL CONFERENCE, DIS CERRELTI COMPUTER STSTEMS RESEARCH COMPCON 73 - SEVENTH ANNUAL IEEE COMPUTER SOCIETY INTERNATIONAL CONFERENCE, DIS CONFERENCE, COMPUTING NETWORKS FROM MINIS THROUGH MAXIS -- ARE THEY FOR REAL?", (SAN FRANCISCO, CA. FEBRUARY 27-28, MARCH I, 1973), INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS INC., NEW YORK, 1973, (LC 68-1628), P 125-128, 9 REFS (ANNOTATION UNDER 3.1.1)

SMOSHANI, ARIE, OATA SHARING IN COMPUTER NETWORKS, (SYSTEM DEVELOPMENT CORP., SANTA MONICA, CA). 1972 WESCON TECHNICAL PAPERS. SESSION 7: COMPUTER NETWORKS, (PRESENTED AT, WESTERN ELECTRONIC SHOW AND CONVENTION, SEPTEMBER 19-22: 1972), 1972), 7-41-7-4-B, 19 REFS

THIS PAPER OESCRIBES, DISCUSSES, AND COMPARES APPROACHES AND TECHNIDUES FOR DATA SMARING ON COMPUTER NETWORKS. THE IMPORTANCE OF A COMMON DATA MANAGEMENT LANGUAGE IS DISCUSSED INCLUDING THE POSSIBILITY DF USING A NATURAL LANGUAGE (A SUBSET OF ENGLISH). (ALSO UNDER 4.1.0. 344.3)

WALDEN, CAVID C., A SYSTEM FOR INTERPROCESS COMMUNICATION IN A RESOURCE SHARING COMPUTER NETWORK, (BOLT, BERANEK AND Newman Inc., Cambridge, Ma), Communications of The Acm, Vol 15, ISSUE 4, Apr 72, P 221-230, 10 REFS

COMUNICATIONS OF THE ACH. VOL 15, 15SUE 4, APR 72, P 221-230, 10 REFS IN THIS PAPER WALDEN BEGINS WITH A RATHER CLEAP PRESENTATION OF A MECHANISM FOR PROCESS TO PROCESS COMMUNICATION WITHIN A SINGLE TIME-SHARING SYSTEM AND EXTRAPOLATES THE MECHANISM FOR REMOTE PROCESSES LOCATED AT DIFFERENT SITES IN A RESOURCE-SHARING COMPUTER NETWORK. ALTHOUGH EXTENSIVE USE OF THE 'PORT' CONCEPT FOR INTERCONNECTING PROCESSES IS MADOE THERE IS NO REFERENCE TO BALZER'S IMPORTANT WORK IN THIS AREA. THE 'PORT' CONCEPT FOR INTERCONNECTING PROCESSES IS WHEN DISCUSSING A HYPOTHETICAL APPLICATION--AN ARPA-LIKE NETWORK. A NUMBER OF POINTS ARE MADE, SOME FCLLOWING FROM THE EARLIER PART OF THE PAPER, O'THERS APPARENTLY OPINIONS OFFERED WITH LITTE RATIONALE TO BACK THEM UP. THE POINTS ARE I) PLACE THE BULK OF THE NETWORK CONTROL PROGRAM (NCP) IN THE IMP, RATHER THAN IN THE HOST COMPUTER. THIS 'NETWORK CONTROL, FOR WHICH HOSTS WOLLO REMAIN RESPONSIBLE. 2) MARE THE NETWORK MESSAGE-SWITCHED AT THE HIGHEST LEVEL. WHILE THE ARPA NETWORK IS ACTUALLY "CIRCUIT SWITCHEO' FLOW CONTROL, FOR WHICH HOSTS WOLLO REMAIN RESPONSIBLE. 3) THE NUMBER OF BITS PER TRANSMISSION FROM THE JGHEST LEVEL. WHILE THE ARPA NETWORK IS ACTUALLY "CIRCUIT SWITCHEO' FROM HOST TO HOST BY ESTABLISHING 'CONNECTIONS' FROM NCP TO NCP, WALDEN PROPOSES ESTABLISHING A CONNECTION BETWEEN FROM HOST TO HOST BY ESTABLISHING 'CONNECTIONS' FROM NCP TO NCP, WALDEN PROPOSES ESTABLISHING A CONNECTION BETWEEN FROM HOST TO HOST BY ESTABLISHING 'CONNECTIONS' FROM NCP TO NCP, WALDEN PROPOSES ESTABLISHING A CONNECTION BETWEEN ADDITIONAL SET-UP OVERHEAD ESPECIALLY WHERE TWO PROCESSES REQUIRE CONTINUING COMMUNICATION. 3) THE NUMBER OF BITS PER TRANSMISSION FROM THE SENDING HOST SUFFE THAS AWARE/SOFTWARE MECHANISMS FOR MODT-ING OATA TRANSFER ACROSS HOST/IMP INTERFACES. 4) SPECIFIC IOENTIFICATION OF PORTS OF A BUFFER FOR TRANSMISSION FOR MULTIPLE 'MESSAGE' TRANSMISSION MIGHT LEAD TO THE POSSIBILITY OF PARALLEL TRANSMISSION FOR PORTS THROUGH THE NETWORY. THUS INCREASING THE EFFECTI

WHITE, GEORGE W., MESSAGE FORMAT PRINCIPLES, (NATIONAL COMMUNICATIONS SYSTEM, WASHINGTON, OC), Jackson, Peter E., Proceedings, acm/ieee second symposium on Problems in The optimization of data communication systems, (PALD ALTO, CA, OCTOBER 20-22, 1971), 1971. IEEE CAT-71059-C, P 102-198, 3 Refs

THE TRANSMISSION OF DATA OVER TELECOMMUNICATION CIRCUITS REQUIRES AGREED UPON MESSAGE FORMATS. THIS PAPER IS A DEFINITIVE AND TUTORIAL DISCUSSION OF THE PRINCIPLES TO BE USED FOR DEVELOPING MESSAGE FORMATS. ALL OF SUBFIELDS OF MESSAGE HEADERS AND TRAILERS ARE IDENTIFIED AND DEFINED. THE DISCUSSION IS BASED ON THE CURRENT EFFORTS OF AMERICAN NATIONAL STANDARDS INSTITUTE TASK GROUP X3S33, MESSAGE HEADER FORMATS. ALL OF THE

ZIMMERMANN, HUBERT, THE CYCLAGES END TO END PROTOCOL, (INSTITUT OF RECHERCHE O'INFORMATIQUE ET O'AUTOMATIQUE (IRIA). ANCE))

(FRANCE)). FOURTH DATA COMMUNICATIONS SYMPOSIUM. NETWORK STRUCTURES IN AN EVOLVING OPERATIONAL ENVIRONMENT, (QUEBEC CITY. (CANADA). OCTOBER 7-9. 1975), INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YORK, 1975, IEEE 75-CH10001-7-DATA, P 7-21--7-26. 10 REFS OCTOBER 7-9 7-21--7-26,

PRESENTED IS AN END-TO-END PROTOCOL ADOPTED BY THE CYCLADES NETWORK AND THE EUROPEAN INFORMATICS NETWORK. SOME INCICATIONS ARE GIVEN OF A POSSIBLE IMPLEMENTATION OF THIS PROTOCOL.

4. APRLICATIONS

4.0 GENERAL

- AUFENKAMP, 0, 0., E. C. WEISS, NSF ACTIVITIES RELATED TO A NATIONAL SCIENCE COMPUTER NETWORK, (NATIONAL SCIENCE FOUNDATION, WASHINGTON, DC), WINKLER, STANLEY, COMPUTER COMMUNICATIONS: IMPACTS AND IMPLEMENTATION, THE FIRST INTERNATIONAL CONFERENCE ON COMPUTER COMMUNICATION, (WASHINGTON, DC, DCTOBER 24-26, 1972), INTERNATIONAL CONFERENCES ON COMPUTER COMMUNICATION, 1972, ICCC 72-CHC-690-BC, NSF GJ-33239, P 226-232, 1 REFS (ANNOTATION UNDER 1.2)
- CARROLL, TOR W., SEYMOUR J. WOLFSON, KARL L. ZINN, RROGRESS ON ARRLICATIONS DEVELOPMENT, 1970-71. A RERORT OF THE ASSOCIATE DIRECTORS OF MERIT PROJECT, MICHIGAN, STATE UNIV. OF, EAST LANSING, WAYNE, STATE UNIV. OF, DETROIT, MI, MICHIGAN, UNIV. OF, ANN ARBOR, DEC 71, MCN 1271-RR-7, 33P, 6 REFS

THE SPECIAL COMPUTER RESOURCES THAT HAVE BEEN DEVELOPED AT EACH OF THE THREE UNIVERSITIES IN THE MERIT NETWORK, AND MADE AVAILABLE THROUGH THE NETWORK, ARE DESCRIBED.

CAVIS, RUTH M,, RRACTICALITIES OF NETWORK USE, (NATIONAL BUREAU OF STANDARDS, WASHINGTON, DC, INST, FOR COMPUTER SCIENCES AND TECHNOLOGY), NETWORKS FOR HIGHER EDUCATION, PROCEEDINGS OF THE EDUCOM SPRING CONFERENCE, (WASHINGTON, DC, APRIL 13, 1972), INTERUNIVERSITY COMMUNICATIONS COUNCIL INC. (EDUCOM), PRINCETON, NJ, 1972, P 13-28

SOME OF THE CHALLENGES INVOLVED IN ACHIEVING A SUCCESSFUL INTERFACE BETWEEN USERS AND PROVIDERS IN THE MARKETRLACE FOR NETWORK SERVICES ARE OUTLINED, THE EMPHASIS HERE IS ON SERVICES THAT NETWORKS OFFER RATHER THAN COMPUTER NETWORK RER SE, SOME OF THE TOPLIS COVERED INCLUDE: STANDARDS ARRALICABLE TO THE COMPUTER NETWORK SERVICE AREA, SEMANTIC DIFFICULTIES IN NETWORK TERMINOLOGY, DETERMINING COST AND REAFORMANCE OF NETWORK SERVICES, NETWORK USER DOCUMENTATION AND USER ASSISTANCE, AND LACK OF COMPATIBILITY AMONG DIFFERENT SERVICES OFFERED THROUGH A NETWORK, (ALSO UNDER 1.1, S.7)

EUGGER, EOWARD, THE MATEFIALS INFORMATION NETWORK, (AIR FORCE SYSTEMS COMMAND, AIR FORCE MATERIALS LAB.), AMERICAN DOCUMENTATION INSTITUTE 26TH ANNUAL MEETING. AUTOMATION AND SCIENTIFIC COMMUNICATION. PART 2. (CHICAGD, IL, OCTOBER 6-11, 1963), AMERICAN DOCUMENTATION INST., WASHINGTON, OC, 1963, P 217-218

A BRIEF DESCRIPTION OF ACTIVITIES RELATED TO THE AIR FORCE MATERIALS INFORMATION CENTER WHICH RROVIDES COMPUTERIZED INFORMATION ON MATERIALS TECHNOLOGY IS RRESENTED. THE RERORT IS SOMEWHAT DUTDATED AND DESCRIBES FEW INTERESTING TECHNOLOGICAL INNOVATIONS.

EICK, HARRY A., SEYMOUR J, WOLFSON, KARL L. ZINN, OEVELOBMENT OF APPLICATIONS FOR THE MERIT COMPUTING NETWORK, MICHIGAN, STATE UNIV. OF, EAST LANSING, WAYNE, STATE UNIV. OF, DETROIT, MI, MICHIGAN, UNIV. OF, ANN ARBOR, 2 JUN 72, GR, 3 REFS TC ARREAR IN ACK SIGCUE BULLETIN ON COMPUTER USES IN EDUCATION (JUN 72)/

SOME APRLICATIONS IN VARIOUS STAGES OF GEVELOPMENT FOR THE MERIT COMPUTER NETWORK, WHICH LINKS THREE MICHICAN UNIVERSITIES, ARE BRIEFLY SKETCHEG. FOUP PROJECTS ARE DESCRIBEG. INCLUDING SHARING OF GATA FILES FORM GIFERENT INFORMATION SERVICES AND PROVIOING COMPLEES FOR VARIOUS LANGUAGES NOT AVAILABLE ON ALL MACHINES. MANY REFERENCES, BOTH EXPLICIT AND IMPLICIT, ARE MADE TO THE METHOD OF DAGANIZATION AND MANAGEMENT OF THE NETWORK, WHICH IS CODERATIVE WITH EACH OPERATING CENTER RETAINING COMPLETE AUTONOMY. (ALSO UNDER S.O)

EICK, HARRY, OR, SEYMOUR J, WOLFSON, KARL L. ZINN, FACILITIES AND RESOURCES AVAILABLE VIA THE MERIT HOST COMPUTING CENTERS, MERIT COMPUTER NETWORK, ANN ARBOR, MI, MAY 73, MCN 0573-GE-14, 34R

THE COMPUTING SYSTEMS OF THREE UNIVERSITIES, MICHIGAN STATE UNIVERSITY, UNIVERSITY OF MICHIGAN AND WAYNE STATE UNIVERSITY ARE NOW CONNECTED BY THE MERIT COMPUTER NETWORK. THIS REPORT DESCRIBES THE COMPUTING RESOURCES WHICH ARE AVALLABLE TO ALL THREE UNIVERSITIES. A LIST OF THE UNIOUE SOFTWARE AND DATA BASES OF EACH CENTER IS INCLUDED.

- FAYES, FOBERT M., BIBLIDGRAPHIC RROCESSING AND INFORMATION RETRIEVAL, (BECKER AND HAYES INC.). GREENBERGER, MARTIN, JULIUS ARDNOFSKY, JAMES L. MCKENNEY, WILLIAM F. MASSY, NETWORKS FOR RESEARCH AND EDUCATION: SHARING COMPUTER AND INFORMATION RESOURCES NATIONWIDE, MIT PRESS, CAMBRIDGE, MA, 1973, P 161-164 (ANNOTATICN UNDER 4-2-2)
- LEGATES, JOHN, THE LESSONS OF EIN, (EOUCATIONAL INFORMATION NETWORK), ECUCOM BULLETIN, VOL 7, ISSUE 2, SUMMER 72, R I8-20, I REFS (ANNOTATION UNCER 3-1.0)
- FOBERTS, LAWRENCE, DR., ARPA NETWORK IMPLICATIONS. (ADVANCED RESEARCH PROJECTS AGENCY, APLINGTON, VA), EOUCOM BULLETIN, VOL 6, ISSUE 3, FALL 7], P 4-B (ANNOTATION UNDER 1.6)
- ROTHMAN, JOHN, OR., THE TIMES INFORMATION BANK ON CAMRUS, (NEW YORK TIMES, NY), EOUCOM BULLETIN, VOL 8, ISSUE 3, FALL 73, R 14-19

THE AUTHOR DESCRIBES THE NEW YORK TIMES INFORMATION BANK, ITS RRESENT STATUS AND RLANS FOR THE FUTURE. THE INFORMATICN BANK IS AN ON-LINE, REAL-TIME, INTERACTIVE SYSTEM ACCESSING A DATA BASE OF ALL NEWS AND EDITORIAL MATTER PUBLISHED IN THE NEW YORK TIMES AND SELECTED AFTICLES FROM SIXTY DTHER PUBLICATIONS. ONLY A FEW TERMINALS ARE NEW IN USE BUT THE USER POPULATION IS EXPECTED TO GROW RAPIOLY. THIS ARTICLE IS A VERY GENERAL ONE DESCRIBING WHAT CAPABILITIES THE INFORMATION BANK HAS THAT WOULD INTEREST UNIVERSITIES, LIBRARIES, GOVERNMENT AND COMMERCIAL INSTITUTIONS.

SHER, MICHAEL S., OR., EXPERIENCE IN NETWORKING--A CASE STUDY, (ILLINDIS, UNIV. OF, URBANA, CENTER FOR ADVANCED COMPUTATION),

ECUCCH BULLETIN, VOL B. ISSUE 3. FALL 73. P 8-13. 14 REFS

SINCE AUGUST 1971, DVER 90 PERCENT OF THE COMPUTER RESCURCES REQUIRED BY THE STAFF OF THE CENTER FOR ADVANCED COMPUTATION IN THE GPACMATE COLLEGE OF THE UNIVERSITY OF ILLINOIS HAVE BEEN DETAINED VIA THE ARPA NETWORK, THE AUTHOR REPORTS THE FOLLOWING: (1) THE CENTER'S MEANS OF ACCESSING THE ARPANET; (2) REASONS FOR CHOSING METWORKING RATHER THAN LOCALLY AVAILABLE COMPUTER SYSTEMS; (3) THE CENTER'S EXPERIENCE USING THE ARPANET; AND (4) OPINIONS ON THE FUTURE OF NETWORKING IN EQUCATIONAL AND RESEARCH EXVIRONMENTS.

4.1 FUNCTIONAL

MASSY, WILLIAM F., TEXT PROCESSING AND INFORMATION RETRIEVAL, REPORT OF WORKSHOP 4. (STANFORD UNIV., CA), GREENBERGER, MARTIN, JULIUS ARDNOFSKY, JAMES L. MCKENNEY, WILLIAM F. MASSY, NETWORKS FOR RESEARCH AND EQUCATION: SHARING COMPUTER AND INFORMATION RESOURCES NATIONNIOL, MIT PRESS, CAMBRIDGE, MA, 1973, P 105-177

THE WORKSHOP WAS CONCERNED WITH PROBLEMS ASSOCIATED WITH TEXT-PROCESSING AND INFORMATION RETRIEVAL SERVICES. EDITED VERSIONS OF THE REPORTS OF THREE SUBGROUPS ARE PRESENTED. THESE REPORTS ADDRESS USER CHARACTERISTICS. SYSTEM CHARACTERISTICS: AND CRITICAL PROBLEMS. (ALSO UNDER 2.3)

TREU, SIEGFRIED, ON-LINE STUDENT DEBATE: AN EXPERIMENT IN COMMUNICATION USING COMPUTER NETWORKS, (PITTSBURGH, UNIV, OF, PA, DEFT. CF COMPUTER SCIENCE), INTERNATICNAL JOURNAL OF COMPUTER AND INFORMATION SCIENCES, VOL 4, ISSUE 1, MAR 75, P 39-51, 10 REFS

THIS PAPER FALLS INTO THEGENERAL CATEGORY OF COMPUTER-MEDIATED INTERPERSONAL COMMUNICATION AND, MORE SPECIFICALLY, INVOLVES WHAT MAY BE CALLED "TELEDEBATING." AKIN TO THE EETTER KNOWN TELECOMFERENCING TECHNIQUES, IT REPRESENTS AN INTERESTING APPLICATION OF STRUCTURED DEBATE IN THE CONTEXT OF A COMPUTER COMMUNICATIONS NETWORK. MORE IMPORTANT. HOWEVER, IS THE DESCRIBED EXPERIMENTAL ATTEMPT TO LEARN ABOUT HOW PEOPLE PERCIVE AND COMCEPTUALIZE THE STRUCTURES OF FILES USED AS INTERMEDIARY STORAGE VEHICLES FOR THE TRANSMISSION OF INFORMATION BETWEEN/AMONG DEBATORS. THE EXPERIMENTAL EFFORT WAS NECESSARILY LIMITED. CONSIDERABLY MORE RESEARCH IS REQUIRED TO CORROBORATE AND EXTEND THE EXULTS.

4.1.0 GENERAL

COOTH, GRAYCE M., THE USE OF DISTRIBUTED DATA BASES IN INFORMATION NETWORKS, (HONEYWELL INFORMATION SYSTEMS INC,

4.1.0 GENERAL

PHDENIX, AZ), WINKLER, STANLEY, COMPUTER COMMUNICATIONS: IMPACTS AND IMPLEMENTATION, THE FIRST INTERNATIONAL CONFERENCE ON COMPUTER Communication. (WaShington, DC, October 24-26, 1972), International Conferences on computer communication, 1972, Iccc 72-CHC-690-BC, NSF GJ-33239, P 37I-376

THE CONCEPT OF DISTRIBUTING DATA BASES THROUGHOUT A NETWORK OF COMPUTERS IS DISCUSSED, A NUMBER OF ALTERNATIVES ARE PRESENTED FOR DISTRIBUTED DATA BASE CREATION, ASSOCIATION OF FILES WITH JOBS, FILE ACCESS METHODS, AND FILE INTEGRITY. ANALYSIS OF ALTERNATIVES IS LEFT OPEN FOR FURTHER WORK.

KARP, P. M., DOUGLAS B. MCKAY, O. C. WOOO, VIEWS ON ISSUES RELEVANT TO OATA SHARING ON COMPUTER NETWORKS, MITRE CORP., Washington, oc, international business machines corp., 12 May 71, Nic-6742, 7p

THIS REPORT SUMMARIZES PLANS AND IDEAS FOR DATA SHARING ON COMPUTER NETWORKS, WITH PARTICULAR INTEREST IN THE ARPA NETWORK, ALTERNATIVES SUCH AS DIRECT CONNECTION BY USERS TO EACH HOST, INTERMEDIATE PROCESSES FOR ASSISTING IN DATA EASE ACCESS, AND AN DVERALL UNIFIED DATA MANAGEMENT APPROACH IN THE NETWORK ARE INTRODUCED, CONCERN IS EXPRESSED DR A DATA DESCRIPTIVE LANGUAGE, A DATA RECONFIGURATION SERVICE, FILE TRANSFER, AND DATA MANAGEMENT PROBLEMS IN A COMPUTER NETWORK ENVIRONMENT.

MARILL, THOMAS, NETWORK DATA HANDLING SYSTEM, SEMI-ANNUAL TECHNICAL REPORT, COMPUTER CORP, OF AMERICA, CAMBRIDGE, MA, 1 SEP 71, DAHC 04-71-C-0011, (AD-730 724), 56P

THE DATACOMPUTER, DESIGNED TO PROVIDE A CENTRALIZED SPECIALIZED DATA MANDLING NODE WITHIN A COMPUTER COMMUNICATIONS NETWORK, IS DESCRIBED, FOLLOWING AN OVERVIEW OF THE DATACOMPUTER, THE PRIMARY SOFTWARE MODULES ARE DETAILED, INCLUDING THE INPUT-OUTPUT NANAGER, THE REDUEST MANDLER, THE SUPERVISOR, AND THE STORAGE MANAGER.

LTZER, MERBERT S., HUBERT F. ICKES. INFORMATION INTERCHANGE BETWEEN DISSIMILAR SYSTEMS, (INTERNATIONAL BUSINESS Machines Corp., San Jose, Ca. Systems development Lab., International Business Machines Corp., Poughkeepsie, ny, systems development div.). MELTZER MODERN DATA, VOL 4, ISSUE 4, APR 71, P 56-57, 59-60, 63, 66-67

THE PROBLEMS OF INFORMATION INTERCHANGE BETWEEN DISSIMILAR SYSTEMS ARE ADDRESSED. VARIOUS CODES AND INTERCHANGE MECHANISMS ARE EXAMINES, THE PROBLEMS OF TRANSFERRING DATA FILES FROM ONE SYSTEM TO ANOTHER AND OF TRANSFERRING A HIGHLEVEL LANGUAGE APPLICATION PROGRAM BETWEEN SYSTEMS ARE DISCUSSED.

NORENCEF, EOWARD, THE TRANSFERABILITY OP COMPUTER PROGRAMS AND THE OATA ON WHICH THEY OPERATE, (ROME AIR DEVELOPMENT CENTER, GRIFFISS AFB, NY), AFIPS PROCEEDINGS, 1969 SPRING JCINT COMPUTER CONFERENCE, VOLUME 34, (BOSTON, MA, MAY 14-16, 1969), AFIPS PRESS, MONTVALE, NJ, 1969, AFIPS CONFERENCE PROCEEDINGS, (LC 55-44701), P 609-610, B REFS

THIS BRIEF ARTICLE, REPORTING ON THE PRELIMINARY FINOINGS OF AN AIR FORCE STUDY GROUP, PRESENTS AN EXCELLENT SUMMA OF THE PROBLEMS INVOLVED IN SOFTWARE TRANSFERABILITY AND SOME POSSIBLE SOLUTIONS. THE MAIN OBSTACLES TO SOFTWARE TRANSFERABLITY ARE SUGGESTED TO BE LODES SPECIFICATION OF DATA STRUCTURES, LACK OF PROGRAMMING STANADRIZATION, AND EXCESSIVE PROGRAMMER FREEDOM WHEN HIGHER LEVEL LANGUAGES ARE USED. POSSIBLE SOLUTIONS TO THESE PROBLEMS ARE; (1) ADMINISTRATIVE CONTROL OF PROGRAMMING AND ODCUMENTATION! (2) EXTENSIONS TO CURRENT LANGUAGES; (3) USE OF A NEW PROGRAMMING ENVIRONMENT WHICH WOULD ELIMINATE THE CONSTRAINTS OF THE OLOER SYSTEM. PRESENTS AN EXCELLENT SUMMARY

SATTLEY, KIRK, ROBERT MILLSTEIN, STEPHEN MARSMALL, ON PROGRAM TRANSFERABILITY, MASSACHUSETTS COMPUTER ASSOCIATES, WAKEFIELG, 24 NOV 70, MCA CA-7011-24II, AF F30602-69-C-0286, 47P, 2 REFS

THE PROBLEM OF PROGRAM TRANSFERABILITY IS ADDRESSED, WHERE 'PROGRAMS' INCLUDE SOURCE CODE, FILE DECLARATIONS, LINK-FOIT COMMANDS, JOB CONTEDL CARDS, AND RELATED ESSENTIALS. THE APPROACH IS TO DEFINE A PROCESS DESCRIPTION FOR SOME WIDE CLASS OF CONVENTIONAL HARDWARE WHICH IS DELIVERED TO THE MAPPING SOFTWARE OF THE TARGET MACHINE. THE MAPPING SOFTWARE CREATES A REPRESENTATION OF THE PROCESS IN THE TARGET MACHINE.

SHOSHANI. ARIE. DATA SHARING IN COMPUTER NETWORKS. (SYSTEM DEVELOPMENT CORP., SANTA MONICA, CA). 1972 WESCON TECHNICAL PAPERS. SESSION 7: COMPUTER NETWORKS, (PRESENTED AT. WESTERN ELECTRONIC SHOW AND CONVENTION. SEPTEMBER 19-22, 1972). 1972. P 7-4-1-7-4-8. I9 REFS (ANNOTATION UNDER 3.5-2)

4.1.1 TELECONPERENCING SYSTEMS

(ALSO UNCER 5.5)

AFARA, FOY, JACQUES VALLEE, FORUM: A COMPUTER-BASED SYSTEM TO SUPPORT INTERACTION AMONG PEOPLE, (INSTITUTE FOR THE PUTURE, MENIC PARK, CA). ROSENFELO, JACK L., INFORMATION PROCESSING 74. PROCEEDINGS OF IFIP CONGRESS 74. 5. SYSTEMS FOR MANAGEMENT AND ADMINISTRATION, (STOCKHOLM, (SWEDEN), AUGUST 5-10, 1974), AMERICAN ELSEVIER PUBLISHING CO, INC., NEW YORK, 1974, P 1052-1056

FORUM IS A TELECONFERENCING SYSTEM IMPLEMENTED ON A DEC PDP-10 UNGER THE TENEX OPERATING SYSTEM, WHAT DISTINGUISHES FORUM FROM OTHER TELECONFERENCING SYSTEMS IS ITS AVAILABLITY ON A NETWORK (ARPA) WHICH HAS AN INTERNATIONAL REACH. SEVERAL CCMERENCES CAN BE CONDUCTED SIMUTANEOUSLY. A TRANSCRIPT OF EVERY DISCUSSION IS AVAILABLE IN A COMPUTER FILE. THE MAIN INADEOUACY REPORTED IS THAT THE SYSTEM REQUIRES TYPING BY PARTICIPANTS, HOWEVER, THE PROJECT ENVIRONMENT OGES PROVIDE FOR DEVELOPMENT OF OTHER COMMUNICATION MEDIA WHICH WICH WHICH WICH COMUNICATION.

DERSON, PETER GORDON, A STRUCTUREO APPROACH TO COMPUTERIZEO CONFERENCING, (NEW JERSEY INST. OF TECH.), Proceedings of the 1975 symposium-computer networks: trends and applications, (gaithersburg, mo, june 18, 1975), Institute of electrical and electronices engineers inc., new york, 1974, 75cho773-66, p gi-68

A COMPUTERIZED CONFERENCE IS A DEVICE FOR HUMAN COMMUNICATION, WHERE THE PARTICIPANTS COMMUNICATE THROUGH INTERACTIVE COMPUTER TERMINALS, A SPECIAL-PURPOSE DATA MANAGEMENT SYSTEM RUNNING IN A TIME-SHARING COMPUTER ACTS AS THE CONFERENCE MODERATOR, THIS PAREP DESCRIBES SOME POSSIBILITIES FOR USING COMPUTERIZED CONFERENCING, AND SUGGESTS A UNIFYING FCR CONFERENCING SOFTWARE

BEOFORD, MICHAEL T., TRENDS IN TELECONFERENCING AND COMPUTER-AUGMENTED MANAGEMENT SYSTEMS, (BELL CANADA, MONTREAL, BUSINES PLANING GROUP). Business Planing Group). National Telecommunications conference. Conference Record, volume 2. (new orleans, La, december I-3, 1975). Institute of Electrical and Electronics engineers inc., New York, 1975, IEEE 75-CH (IG 57-25024), P 32-20-32-22

THIS HIGHLY REAGABLE PAPER PRESENTS A GENERAL OVERVIEW OF THE DIFFERENT ASPECTS OF TELECONFERENCING (AUDIO, AUDIO-VISUAL, GRAPHIC, AND DATA) AND THEN GOES DN TO SHOW HOW THE LAST OF THESE (DATA, OR COMPUTER CONFERENCING) CAN BE USED TO FACILITATE A NUMBER OF GROUP COMMUNICATION FUNCTIONS WHICH CAN NOT BE ACHIEVED THROUGH THE DITER MEDIA.

CONRATH, DAVID W., TELECONFERENCING: THE COMPUTER, COMMUNICATION, AND ORGANIZATION, (WATERLOO, UNIV, OF, (CANADA)), WINKLER, STANLEY, COMPUTER COMMUNICATIONS: IMPACTS AND IMPLEMENTATION, THE FIRST INTERNATIONAL CONFERENCE ON COMPUTER COMMUNICATION, (WASHINGTON, OC, OCTOBER 24-26, 1972), INTERNATIONAL CONFERENCES ON COMPUTER COMMUNICATION, 1972, ICCC 72-CH0-590-BC, NSF GJ-33239, P 145-146

THIS ARTICLE IS A BRIEF INTRODUCTION TO SEVERAL OTHER ARTICLES (LIPINSKI, LIPINSKI AND RANDOLPH, SCHUYLER AND JOHANSEN, TUROFF, CONSTANT AND SELLEY) GIVEN IN A SESSION OF THE SAME NAME AT THE INTERNATIONAL CONFERENCE ON COMPUTER COMMUNICATIONS HELD IN WASHINGTON, D.C.

RICHARD W. WATSON, JAMES C. NORTON. THE AUGMENTED KNOWLEDGE WORKSHOP. (STANFORD RESEARCH ENGELBART. DOUGLAS C..

NETLAND DEARN, CALLERARD WE WINDOW DENDAND EN DENDAND EN DENDENDE NUBLEDE HOMONDE (DENDANDE DE DENDANDE DE DEN AFIPS CONFERENCE PROCEDINGS, VOLUME 42, 1973, NATIONAL COMPUTER CONFERENCE AND EXPOSITION, (NEW YORK, NY, JUNE 4-8, 1973), AFIPS PRESS, MONTVALE, NJ, 1973, AFIPS CONFERENCE PROCEEDINGS, (LC SS-44701), P 9-21, 41 REFS

UTILIZING THE DEFINITION OF KNOWLEDGE WORKER AS ONE WHO CREATES AND APPLIES KNOWLEDGE TO PRODUCTIVE ENDS, THE AUTHORS DEFINE THE CONCEPT AND FRAMEWORK OF A KNOWLEDGE WORKSHOP AND HOW THIS CONCEPT CAN BE AUGMENTED. A DESCRIPTION OF A PROTOTYPE KNOWLEDGE WORKSHOP IS INCLUDED. THE ARTICLE STATES THAT THE COMPUTER-BASED *TOOLS* OF KNOWLEDGE WORKSHOP WILL BE PROVIDED IN THE ENVIRONMENT OF A COMPUTER NETWORK SUCH AS THE ARPANET.

ENGELBART, DOUGLAS C., NETWORK INFORMATION CENTER AND COMPUTER AUGMENTED TEAM INTERACTION, STANFORD RESEARCH INST.,

4.I.I TELECONFERENCING SYSTEMS

MENLO PARK, CA, AUGMENTATION RESEARCH CENTER, 30 JUN 71, 8 FE8 70-8 FEB 71, AF F30602-70-C-0219, (PADC TR-71+175, AD-737 131). 105P. 21 REFS

THIS REPORT SUMMARIZES THE ACTIVITIES OF STANFORD RESEARCH INSTITUTE IN RELATION TO THE NETWORK INFORMATION CENTER OF THE ARPA NETWORK THROUGH JUNE 1971. SOME OF THE EVENTS DESCRIBED ARE THE CONVERSION OF THE PROCESSOR FROM AN XOS-940 TO A DEC POP-ID, THE REDESIGN OF THE ON-LINE SYSTEM, OEVELOPMENT OF HIGHER LEVEL PROCESSES SUCH AS EXECUTABLE TEXT. CONTENT ANALYZERS IN AUTOMATED CLERICAL PROCEDURES, AN ON-LINE JOURNAL, AND AN ON-LINE CALCULATOR.

ENGELBART, COUGLAS C., NLS TELECONFERENCING FEATURES: THE JOURNAL, AND SHARED-SCREEN TELEPHONING, (STANFORD RESEARCH

INSI, MENDO PARK, COA, AUGMENTATION RESEARCH CONTER). INSI, MENDO PARK, CA, AUGMENTATION RESEARCH CONTER). CCMPCCN FALL '75, ELEVENTH IEEE COMPUTER SOCIETY CONFERENCE, HOW TO MAKE COMPUTERS EASIER TO USE, DIGEST OF PAPERS, (WASHINGTON, DC, SEPTEMBER 9-11, 1975), INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YORK, 1975, IEEE 75CH0568-CC, P 172-176, 4 REFS

NLS IS AN EXTENSIVE SYSTEM OF COMPUTER AIOS BEING EVOLVED TOWARD SUPPLYING A COMERENT, COMPREMENSIVE ENVIRONMENT IN WHICH A KNOWLEDGE WORKER MIGHT WORK. THE STATED PURPOSE OF THIS PAPER IS TO DISCUSS TWO POWERFUL MODES OF COMPUTER-AIDED COLLABORATION, AND TO HIGHLIGHT THE WAYS IN WHICH COMPUTER NETWORKS WILL FACILITATE HUMAN COLLABORATION.

ENGLE, JAMES, JEAN ISELI, COLLABORATION SUPPORT SYSTEM. (MITRE CORP., MCLEAN, VA), COMPCON FALL '75, ELEVENTH IEEE COMPUTEP SOCIETY COMFERENCE. HOW TO MAKE COMPUTERS EASIER TO USE. DIGEST OF PAPERS. (WASHINGTON. DC. SEPTEMBER 9-11, 1975), INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YORK, 1975, IEEE 75CH0588-6C, P 177-179

A SYSTEM IS DESCRIBED THAT ALLOWS GEOGRAPHICALLY DISPERSED USERS TO COLLABORATE ONLINE IN EXECUTING REMOTE PROCESSES AND EMPLOY SPECIALIZED RESCURCES FOR THEIR MUTUAL BENEFIT.

IPINSKI, ANDREW J., HUBERT M. LIPINSKI, ROBERT H. RANDOLPH. COMPUTER-ASSISTED EXPERT INTERROGATION: A REPORT ON CURRENT METHODS DEVELOPMENT. (INSTITUTE FOR THE FUTURE, MENLO PARK, CA). WINKLER, STANLEY, COMPUTER COMMUNICATIONS: IMPACTS AND IMPLMEMENTATION. THE FIRST INTERNATIONAL CONFERENCE ON COMPUTER COMMUNICATION, (WASHINGTON, OC, OCTOBER 24-26, 1972), INTERNATIONAL CONFEPENCES ON COMPUTER COMMUNICATION, 1972, ICCC 72-CHD-690-68, NSF 6J-33239, P 147-154, 11 REFS LIPINSKI. ANDREW J.

A MAJOR PROGRAM CURRENTLY UNDER WAY AT THE INSTITUTE FOR THE FUTURE TO DEVELOP AND TEST A SYSTEM FOR ON-LINE INTERACTION AMONG EXPERTS VIA A NETWORK OF COMPUTER TERMINALS IS SUMMARIZED. THE AUTHORS REVIEW THE INSTITUTE'S EXISTING METHODS FOR ELICITING AND PROCESSING EXPERT JUGGEMENTS. THEN DISCUSS THE OPERATIONAL PROCEDURES BY WHICH THESE METHODS HAVE CONVENTIONALLY BEEN IMPLEMENTED. IN LIGHT OF THE SHORTCOMINGS OF THESE EXISTING PROCEDURES. THE AUTHORS ARQUE AN URGENT NEED FOR ON-LINE GROUP MODELING CAPABILITIES AS THE NEXT LEAP FORWARD IN JUGGEMINTLA-RESEARCH METHODOLOGY. A DESCRIPTION IS GIVEN OF THE INSTITUTE'S RECENTLY COMPLETED PROTOTYPE COMPUTER CONFERENCING SYSTEM, MERGINE REMOTELY SITUATED RESPONDENTS CAN PARTICIPATE IN INSTITUTE INOUTIES VIA THE ARTA NETWORK AND THE RAND COPPORATICM'S POP-10 COMPUTER, PROBLEMS ENCOUNTERED THUS FAR ARE OLSCUSSED, AS ARE FUTURE PLANS FOR SYSTEM REFEINEMENT AND EXTENSION. THE PAPER CONCLUDES WITH SOME RELEF PHILOSOPHICAL OBSERVATIONS ON THE STATE OF THE ART. ACKNOWLEDGING THAT MUCH WORK REMAINS TO BE DDNE ON THE STILL-PRIMITIVE TOOLS OF DECISION MAKING.

WACON, NATHANIEL, JOHN MCKENDREE, RONALO WYNN, COMPUTER CONFERENCING IN EMERGENCIES: SOME RELIABILITY CONSIDERATIONS, (AMERICAN UNIV., WASHINGTON, OC, GENERAL SERVICES ADMINISTRATION, WASHINGTON, OC, OFFICE OF PREPAREDMESS), PROCEEDINGS OF THE 1975 SYMPOSIUM-COMPUTER NETWORKS: TRENOS AND APPLICATIONS, (GAITHERSBURG, MO, JUNE 18, 1975), INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YORK, 1975, 75CH0973-BC, P 69-73, 7 REFS

THE RESOURCE INTERRUPTION MONITORING SYSTEM IRIMS) IS A MANAGEMENT INFORMATION SYSTEM WITH EXTENSIVE CONFERENCING ITURES, THIS PAPER DESCRIBES THE SYSTEM AND DISCUSSES ITS USE BY THE DEFICE OF PREPAREDNESS, GSA, AND DTHER FEDERAL FEATURES, AGENCIES.

SCHUYLER. JAMES A.. ROBERT JOHANSEN, *ORACLE*: COMPUTERIZED CONFERENCING IN A COMPUTER-ASSISTED-INSTRUCTION SYSTEM, (NORTHWESTER UNIV., EVANSTCH, IL UPSALA COLLEGE, EAST DERNGE, NJJ, WINKLER, STANLEY, COMPUTER COMMUNICATIONS: IMPACTS AND IMPLEMENTATION, THE FIRST INTERNATIONAL CONFERENCE ON COMPUTER COMMUNICATION, (WASHINGTON, OC, OCTOBER 24-26, 1972), INTERNATIONAL CONFERENCES ON COMPUTER COMMUNICATION, 1972, ICCC 72-CHC-690-8C, NSF GJ-33239, P ISS-I60, ID REFS

THE EVOLUTION AND OPERATION OF GRACLE, A COMPUTER PROGRAM FOR COMPUTERIZED CONFERENCING AND RESEARCH, IS DESCRIBED. ORACLE EXISTS AS AN ESSENTIAL PART OF THE COMPUTER-ASSISTED INSTRUCTION SYSTEM AT NORTHWESTERN UNIVERSITY. THE PAPER DESCRIBES THE OPERATION OF GRACLE AS A COMMUNICATIONS FACILITY FOR TEACHERS AND SYSTEM DESIGNERS, AS A RESEARCH TOOL, AS A RECORD-RESERVED AS A NINSTRUMENT FOR CURRICULAR FEEDBACK. THUS DRACLE EXTENDS BEYOND THE TRADITIONIS TACIDITIONS TACIDIANS TACIDITIONS TACIDITIONS TACIDITIONS TACIDITIONS TACIDIANS TACIDIA ARE DISCUSSED.

THOMAS, RICHARO B., A COMPUTER ASSISTED CONFÉRENCE SYSTEM, (MARYLAND, UNIV. OF, COLLEGE PARK, DEPT. OF COMPUTER SCIENCE)

PROCEEDINGS OF THE 1975 SYMPOSIUM-COMPUTER NETWORKS: TRENOS AND APPLICATIONS, (GAITHERSBURG, MO, JUNE 18, 1975), INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YORK, 1975, 75CH0973-8C, P 74-77, 9 REFS

THE UNIVERSITY OF MARYLAND IS DEVELOPING A COMPUTER-ASSISTED CONFERENCING SYSTEM TO BE USED WITHIN THE COMPUTER SCIENCE DEPARTMENT. SEVERAL NOVEL DESIGN FEATURES ARE INCORPORATED INCLUDING THE SYSTEM'S ABILITY TO RESIDE EITHER ON A NETWORK OF COMPUTERS OR ON A SINGLE COMPUTER.

TUROFF, MURRAY, DR., 'PARTY-LINE' AND 'DISCUSSION'--COMPUTERIZED CONFERENCE SYSTEMS, DEFICE OF EMERGENCY PREPAREDNESS, WASHINGTON, OC. 20 JAN 72, 40P, 4 REFS

THIS PAPER DESCRIBES A COMPUTER-BASED MODE OF GROUP COMMUNICATION AND EXAMINES THE COST/EFFECTIVENESS OF VARIOUS OTHER COMMUNICATIONS MODES TO APRIVE AT THE CIRCUMSTANCES LEADING TO ECONOMIC ADVANTAGES OF THE COMPUTER-BASED MODE. THE SYSTEM ALLOAS TWO OR MORE PARTIES TO CONVERSE ASYNCHRONOUSLY VIA TEMPINALS AT THEIR RESPECTIVE LOCATIONS. THE COST/EFFECTIVENESS IS MEASURED IN TERMS OF NUMBER OF CONFERENCES AND THE VALUE OF INDIVIDUALS' TIME. A HARD COPY RECORD OF THE COMPERENCE IS AN ADDITIONAL BEREFIT. (ALSO UNDER S.3)

TURDEF, MURPAY, 'PAPTY-LINE' AND 'OISCUSSION' COMPUTERIZED CONFERENCE SYSTEMS, (OFFICE OF EMERGENCY PREPAREONESS,

WASHINGTON, OC). WASHINGTON, OC). WINKLER, STALEY, COMPUTER COMMUNICATIONS: IMPACTS AND IMPLEMENTATION, THE FIRST INTERNATIONAL CONFERENCE ON COMPUTER COMMUNICATION, (WASHINGTON, OC, OCTOBER 24-26, 1972), INTERNATIONAL CONFERENCES ON COMPUTER COMMUNICATION, 1972, ICCC 72-CHC-69(-BC, NSF GJ-33239, P 161-171, 10 REFS

TWC COMPUTERIZED VERSIONS OF THE BASIC TELEPHONE CONFERENCE CALL ARE OUTLINED. THE PAPER FIRST EXPLAINS THE OPERATION OF THIS COMPUTERIZED MODE OF GROUP COMMUNICATION BY LEADING THE READER THROUGH AN ILLUSTRATIVE EXAMPLE. THEN AN EXAMPLE OF RELATIVE EFFECTIVENESS AND COSTS OF VARIOUS COMMUNICATION MODES IS PRESENTED IN ORDER TO ILLUSTRATE UNDER WHAT CIRCUMSTANCES THE COMPUTER-BASED MODE OFFERS ECONDAIC ADVANTAGES OVER OTHER COMMUNICATION MODES.

4.1.2 FILE MANAGEMENT

- FARBER, DAVID J., FRANK HEINRICH, THE STRUCTURE OF A DISTRIBUTED COMPUTER SYSTEM--THE DISTRIBUTED FILE SYSTEM, (CALIFORNIA. UNIV. OF, IRVINE). WINKLER, STANLEY, COMPUTER COMMUNICATIONS: IMPACTS AND IMPLEMENTATION. THE FIRST INTERNATIONAL CONFERENCE ON COMPUTER COMMUNICATION, (WASHINGTON, OC. OCTOBER 24-26, 1972), INTERNATIONAL CONFERENCES ON COMPUTER COMMUNICATION, 1972, ICCC 72-CHO-960-86, NSF GJ-33239, P 364-370, B REFS (ANNGTATION UNDER 3.1.1)
- COODLETT, JIM, JOE MARINO, UNITED AIR LINES' PLACE ON ON-LINE DATA PROCESSING, (UNITED AIR LINES, DENVER, CO), COMPCON 73 SEVENTH ANNUAL IEEE COMPUTER SOCIETY INTERNATIONAL COMFERENCE. OIGEST OF PAPERS. *COMPUTING NETWORKS FROM MINIS THROUGH MAXIS -- ARE THEY FOR REAL?*, (SAN FRANCISCO, CA, FEBRUARY 27-28, MARCH I, 1973), INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS INC*, NEW YORK, 1973, (LC 60-1628), P 219-221, 2 REFS (ANNOTATION UNDER 3.1.1)
- HEINRICH, FRANK, THE STRUCTURE OF A DISTRIBUTED COMPUTING SYSTEM--THE DISTRIBUTED FILE SYSTEM, CALIFORNIA, UNIV, OF, IRVINE, 1972, NSF GJ-1045, 16P, 8 REFS

4. I. 2 FILE MANAGEMENT

A DISTRIBUTED FILE SYSTEM DESIGNED TO PROVIDE RELIABLE, FAIL-SOFT FILE MANAGEMENT IN A DISTRIBUTED COMPUTER NETWORK IS DESCRIBED. THE DESIGN IS MODULAR AND USES A 'SATURATION SIGNALING' MECHANISM TO BROADCAST FOR THE 'OWNER' OF A DESIFED FILE. A DETAILED DISCUSSION OF THE SYSTEM FAIL-SOFT CAPABLITY IS PRESENTED.

FKDVITS, H, C., CHARACTERISTICS OF DATABASE SYSTEMS IN A COMPUTER NETWORK ENVIRONMENT, IGENERAL ELECTRIC CD., BRIDGEPORT, CT, ADVANCED SYSTEMS AND TECHNOLDGY OPERATION), INTERDISCIPLINARY COMFERENCE ON MULTIPLE ACCESS COMPUTER NETWORKS, IAUSTIN, TX, APRIL 20-22, 1970), APR 70, P BRIDGEPORT, C 3+1+1++3+1-8 (ANNOTATION UNDER 2.9)

MASSY, WILLIAM F., INSTITUTIONAL RELATIONS, REPORT OF WORKSHOP 6. ISTANFORD UNIV., CA). GREENBERGER, MARTIN, JULIUS ARONDFSKY, JAMES L. MCKENNEY, WILLIAM F. MASSY, NETWORKS FOR RESEARCH AND EQUCATION: SHARING COMPUTER AND INFORMATION RESOURCES NATIONWIDE. WIT PRESS. CAMBRIDGE, MA. 1973, P. 245-262, 1 REFS

THE NSF-SFORSDRED WORKSHOP DISCUSSED FDUR GENERAL ISSUES CONCERNING NETWORKING FROM THE POINT OF VIEW DF COLLEGE OR UNIVERSITY ADMINISTRATION: (1) WHY UNIVERSITIES MIGHT BE INTERESTED IN NETWORKING; (2) SPECIFIC DUESTIONS THAT AN ACMINISTRATION VOLD WANT TO ANSWER BEFORE PROCEEDING; (3) IMPLICATIONS OF NETWORKING FOR THE DRGANIZATION OF THE UNIVERSITY'S COMPUTING CENTER; AND [4] QUESTIONS ABDUT NETWORKING DF CONCERN TO TOP UNIVERSITY ADMINISTRATORS, (4150 UNDER 2.3)

NETWORKING AND GRAPHICS RESEARCH, HARVARD UNIV., CAMBRIDGE, MA, DEC 71, 1 JUL 68-31 AUG 71, AF F10628-71-C-0174, (AF-ESD TR-72-126, AD-742 252), 72P, 11 REFS

THIS REPORT DESCRIBES THE RESULTS OF A PROGRAM OF RESEARCH CARRIED OUT AT HARVARD UNIVERSITY DURING THE LATE '60'S AND EARLY '70'S. THE WORK UTILIZED A PDP-I-BASED GRAPHICS FACILITY, A PDP-10, AND THE ARPA NETWORK, MOST OF THE REPORT IS DEVITED TO RESEARCH IN COMPUTER GRAPHICS, HOVEVER THE ECL PROGRAMING SYSTEM IS BHIEFLY DESCRIBED. THIS SYSTEM IS INTENDED TO BE SCARCH IN COMPUTER GRAPHICS, HOVEVER THE ECL PROGRAMING SYSTEM IS BHIEFLY DESCRIBED. THIS SYSTEM IS DEVITED TO RESEARCH IN COMPUTER GRAPHICS, HOVEVER THE ECL PROGRAMING SYSTEM IS BHIEFLY DESCRIBED. THIS SYSTEM IS INTENDED TO BE USABLE FOR COMMON COMMUTATIONAL TASKS CARRIED DUT CONCURRENTLY DN SEVERAL MODES OF THE ARPA NETWORK, WORK MORE SPECIFICALLY RELATED TO THE ARRA NETWORK INCLUDED CONSTRUCTION OF NETWORK CONTOL PROGRAM SON BOTH COMPUTERS. AND WORK DIRECTED TOWARD FACILITATING THE TRANSFER OF FILES OVER THE NETWORK, THIS WORK WAS BROUGHT ABOUT PARTLY BY THE DOSITE TO GIVE GRAPHICS USERS ACCESS TO THE PDP-IO AND, CONVERSELY, TO MAKE THE PDP-1 PERIPHERAL EQUIPMENT AVAILABLE TO PDP-10 USERS.

ROBERTS, LAWRENCE G., ACCESS CONTROL AND FILE DIRECTORIES IN COMPUTER NETWORKS. (ADVANCED RESEARCH PROJECTS AGENCY WASHINGTON, DC), IEEE INTERNATIONAL CONVENTION, MAR 68, 4P

AN ARGUMENT IS PRESENTED IN THIS BRIEF PARER FOR THE NEED TO KEEP DUPLICATE FILE DIRECTORIES CONTAINING DWNERSHIP AND ACCESSABILITY INFORMATION IN MULTI-COMPUTER NETWORKS. SOME ADDITIONAL PROBLEMS REGARDING ACCESS CONFLICTS ARE BRIEFLY SUMMARIZED.

SABLE, JEROME D., TRANSFERABILITY OF DATA AND PROGRAMS BETWEEN COMPUTER SYSTEMS. (AUERBACH CORP., PHILADELPHIA, PA), AFIRS PROCEEDINGS. 1969 SPRING JOINT COMPUTER CONFERENCE. VOLUME 34+ (BOSTON, MA. MAY IA-16, 1969). AFIPS PRESS. MONTVALE, NJ. 1969, AFIPS CONFERENCE PROCEEDINGS. (LC SS-44701). P 611-612

A HIERARCHY DF DATA STRUCTURE TYPES WHICH RANGE FROM MACHINE AND STORAGE-DRIENTED STRUCTURES TO LOGICAL DATA STRUCTURES TRANSMITTABLE AS CHARACTER STRINGS INDEPENDENT OF PHYSICAL REPRESENTATION IS PRESENTED. THE OBJECT IS TO BE ABLE TC WRITE PROGRAMS FOR ONE DF SEVERAL STANDARD ENVIRONMENTS AND TO DESCRIBE IN A STANDARD WAY THE DATA STRUCTURES WHICH ARE TO BE TRANSMITTED AND INTERPRETED.

NITNEY, V. KEVIN MCDRE, A STUDY DF OPTIMAL FILE ASSIGNMENT AND COMMUNICATION NETWORK CONFIGURATION IN REMOTE-ACCESS COMPUTER MESSAGE RROCESSING AND COMMUNICATION SYSTEMS, MICHIGAN, UNIV. DF, ANN ARBOR, DEPT. DF ELECTRICAL ENGINEERING, SEP 70, MI-DEE SEL-48, AF F30602-69-C-0214, 4080, 187 REFS (ANNOTATION UNDER 2.9)

4.1.9 OTHER

FORERT D. BURN, JR., REAL-TIME DATA ACQUISITION AND REDCESS CONTROL IN A DISTRIBUTED COMPUTING NETWORK. BANIN, RAM A., NIN, RAM A., RUDERI D. DURNI JR.K. REALTING UNIA ALUDISTIDA AND ROLESS CONTACLINA DISTRIBUTED CURPUINS RETURNS (Systems Control Inc., Palo Alto, ca). NATIONAL TELECOMMUNICATIONS CONFERENCE. CONFERENCE RECORD, VOLUME 1. (NEW DRIEANS, LA, DECEMBER 1-3, 1975), INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YORK, 1975, IEEE 75-CH-1015-7-CSCB, (LC 57-20724), R 24-14--24-17, S REFS

PRESENTED IS A BRIEF DESCRIPTION OF A DISTRIBUTED COMPUTING NETWORK, CURRENTLY UNDER CONSTRUCTION, WHICH WILL FACILITATE USER EXPERIMENTATION WITH A VARIETY OF SCHEMES FOR COLLECTION, PROCESSING, AND DISPLAY OF DATA IN REAL TIME, FUTURE APPLICATIONS FOR DISTRIBUTED COMPUTING IN REAL TIME ARE INDICATED.

DE GENNARG, RICHARD, MAJDR TRENDS IN LIBRARY COMPUTERIZATION, (PENNSYLVANIA, UNIV, DF. PHILADELPHIA), FACTS AND FUTURES. WHAT'S HAPPENING NOW IN COMPUTING FOR HIGHER EDUCATION, PROCEEDINGS OF THE EDUCOM FALL CONFERENCE, (PRINCETON, NJ, DCTOBER 9-11, 1973), INTERUNIVERSITY COMMUNICATIONS CDUNCIL INC. (EDUCOM), PRINCETDN, NJ, 1974, (LC 74-79282), P 282-286 (ANNOTATION UNDER 1.2)

HARSLEN, E. F., JOHN F. HEAFNER, THE DATA RECONFIGURATION SERVICE--AN EXPERIMENT IN ADARTABLE, PROCESS/PROCESS COMMUNICATION, RAND CORP., SANTA MONICA, CA, NOV 71, RC R-860-ARPA, 22P, 9 REFS

A DATA RECONFIGURATION SERVICE (DRS) WHICH HAS BEEN IMFLEMENTED AND IS CURRENTLY RUNNING AT MIT, UCLA, UCSB, AND RAND IS DESCRIBED, AND ITS SYNTAX IS SPECIFIED IN DETAIL. THE SERVICE ALLOWS A USER TO SRECIFY FORMS IN THE DRS LANGUAGE WHICH ARE USED TO RECONFIGURE DATA BETWEEN USER AND SERVER SITES. THE CURRENT RECONFIGURATIONS ALLOW FOR CHARACTER SET CONVERSIONS, MESSAGE LEADER ADDITION DR DELETION, DATA COMPRESSION AND EXPANSION, GENERATION DF MESSAGE COUNTERS AND FLAGS, GRAPHIC DEVICE CODE CONVERSIONS, DATA FIELD-TRANSPOSITION, AND FILE REFORMATTING. EXAMPLES OF EACH APPLICATION ARE GIVEN./

MARILL, THDMAS, DALE STERN, THE DATACOMPUTER--A NETWORK DATA UTILITY, (CDMPUTER CORP. DF AMERICA, CAMBRIDGE, MA), AFIPS CONFERENCE PROCEEDINGS, VOLUME 44, 1975, NATIDNAL COMPUTER CONFERENCE, IANAHEIM, CA, MAY 19-22, 1975), AFIPS PRESS, MONTVALE, DJ, 1975, (LC 55-44701), P 339-395, 9 REFS

THE OATACOMPUTER PROVIDES DATA SHARING SERVICES WITHIN A NETWORK ENVIRONMENT. A DATABASE STORED ON THE DATACOMPUTER IS SHARABLE BY ALL COMPUTERS HAVING ACCESS TO THE SYSTEM. THUS USERS DF DIFFERENT INTERESTS AND WITH DIFFERENT HARDWARE SHARE THE SAME BASE. DESIGN CONCEPTS, THE DATALANGUAGE AND APPLICATIONS ARE ALL DISCUSSED. (ALSO UNDER 4.3)

PRESTIA, CLARK A., SINGER PDINT-DF-SALE SYSTEMS, ISINGER BUSINESS MACHINES, SAN LEANDRO, CA), COMPCON 73 - SEVENTH ANNUAL IEEE COMPUTER SOCIETY INTERNATIONAL COMPERENCE. DIGEST OF PAPERS, 'COMPUTING NETWORKS FROM MINIS TRROUGH MAXIS -- ARE THEY FOR REAL?', (SAN FRANCISCO, CA, FEBRUARY 27-28, MARCH 1, 1973), INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS INC., NEW YORK, 1973, (LC 68-1628), P 189-190

SINGER BUSINESS MACHINES DEVELOPED A POINT-DF-SALE SYSTEM CALLED MODULAR DATA TRANSACTION SYSTEM (MDTS) WHICH IS DECENTRALIZED UTILIZING INTELLIGENT TERMINALS. THE TERMINALS IN STAND-ALDNE MODE ARE CAPABLE OF HANDLING SIMF TRANSACTIONS, AND A LARGE CENTRAL SYSTEM PROVIDES EXTENDED CAPABILITIES, SUCH AS CREDIT AUTHORIZATION, (ALSO UNDER 3.1.0) OF HANDLING SIMPLE

SCHATZ, V. L., COMPUTER NETWORKS FOR RETAIL STORES, IJEWEL COMPANIES ING., CHICAGO, IL), COMPCON 73 - SEVENTH ANNUAL IEEE COMPUTER SOCIETY INTERNATIONAL COMFERENCE. DIGEST OF PAPERS. *COMPUTING NETWORKS FROM MINIS THROUGH MAXIS -- ARE THEY FOR REAL?*, ISAN FRANCISCO, CA, FEBRUARY 27-28, MARCH I, 1973), INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS INC., NEW YORK, 1973, ILC 68-1628), P 165-167

THE DATA PROCESSING AND DATA COMMUNICATION NEEDS OF A LARGE OIVERSIFIED RETAIL COMPANY ARE DISCUSSED. SOME OF THE APPROACHES FOR SOLVING THESE NEEDS ARE DESCRIBED WHICH INCLUDE NETWORK DEVELOPMENT BEGINNING WITH A STDRE-LEVEL SYSTEM, THE ELECTRONIC STORE INFORMATION SYSTEM [ESIS].

RE, GLENN 0., JOHN H, SCHUENEMEYER, AN INFORMATION DISSEMINATION NETWORK MODEL, IGEDRGIA, UNIV, OF, ATHENSI, FACTS AND FUTURES, WHAT'S HAPPENING NOW IN COMPUTING FOR HIGHER EDUCATION, PROCEEDINGS OF THE EDUCOM FALL CONFERENCE, (PRINCETON, NJ, DCTOBER 9-11, 1973), INTERUNIVERSITY COMMUNICATIONS CDUNCIL INC. (EDUCDM), PRINCETON, NJ, 1974, ILC 74-79222), P 62-68, 6 REFS MARE, GLENN O.

THE AUTHORS DESCRIBE A SIMULATION MODEL OF A NETWORK OF LIBRARIES AND INFORMATION RETRIEVAL CENTERS. STATISTICAL

4.1.9 OTHER

ANALYSIS OF GATA COLLECTED CONCERNING TWO EXISTING INFORMATION OISSEMINATION CENTERS, GNE AT THE UNIVERSITY OF GEORGIA AND LEAGEMMART AT LEHIGH UNIVERSITY, PROVIDED CUANTITATIVE MEASURES AND PREDICTION EQUATIONS WHICH WERE INCORPORATED INTO THE MODEL. THREE AREAS OF NEEDED ADOITIONAL INVESIGATION WERE IDENTIFIED; SCHEDULING PROCEDURES, OPTIMIZING GATA BASE ALLOCATION AND SIMPLIFING THE USER INTERFACE FOR MULTIDISCIPLINARY NETWORKS.

WAX, CAVIO M., R. O. MDRRISDN, JR., NASICI A REGIONAL EXPERIMENT IN THE BROKERAGE OF INFORMATION SERVICES, (NEW ENGLAND BOARD OF HIGHER EQUCATION), FACTS AND FUTURES, WHAT'S HAPPENING NOW IN COMPUTING FOR FIGHER EQUCATION: PROCEEDINGS OF THE EQUCOM FALL CONFERENCE, (PRINCETON, NJ, CIOBER 9-II, 1973), INTERUNIVERSITY COMMUNICATIONS COUNCIL INC. (EDUCOM), PRINCETON, NJ, 1974, (LC 74-79222), P 268-273

NASIC IS AN ATTEMPT TO PROVIDE A LARGE RESEARCH COMMUNITY WITH ACCESS TO A WIDE SPECTRUM OF INFORMATION SERVICES. THIS ARTICLE DESCRIBES THE MOTIVATION. FUNCTIONS AND GOALS ASSOCIATED WITH THIS EFFORT. (ALSO UNDER 5.0)

WINETT, JDEL M., ON-LINE DOCUMENTATION OF THE COMPATIBLE TIME-SHARING SYSTEM, MASSACHUSETTS INST. OF TECH., LEXINGTON, LINCCLN LAB., 12 MAY 65. MIT-LL TR-387, MIT-ESD TOR-65-68, AF 19(628)-500, (AO-624 110), 46P, 7 REFS

AN ON-LINE SYSTEM IS DESCRIBED WHICH WAS USED FOR STORING AND RETRIEVING INFORMATION ABOUT THE PROGRAMS ASSOCIATED WITH THE MIT COMPATIBLE TIME-SHARING SYSTEM. THE SYSTEM HELPS TO DOCUMENT THE SYSTEM COMMANDS, SUPERVISOR ENTRIES, LIBRARY SUBROUTINES, AND PUBLIC PROGRAMS. THIS SYSTEM IS AN ATTEMPT TO SOLVE THE PROBLEMS OF LACK OF UNIFORMITY IN DOCUMENTATION, DELAYS IN DISTRIBUTION, AND THE INABLITY TO SELECTIVELY RETRIEVE INFORMATION ABOUT A PARTICULAR PROGRAM,/

4.2.0 GENERAL

- AUFENKAMP, D. DON, NSF ACTIVITIES IN NETWORKING FOR SCIENCE. (NATIONAL SCIENCE FOUNDATION, WASHINGTON, OC), GREENBERGER, MARTIN, JULIUS ARONOFSKY, JAMES L. MCKENNEY, WILLIAM F. MASSY, NETWORKS FOR RESEARCH AND EDUCATIONI SHARING COMPUTER AND INFORMATION RESOURCES NATIONWIDE, MIT PRESS, CAMBRIDGE, MA, 1973, P 38-43, 2 REFS (ANNOTATION UNDER 1.1)
- AUFENKAMP, 0. 0., NATIONAL SCIENCE (COMPUTER) NETWORK, (NATIONAL SCIENCE FOUNDATION, WASHINGTON, OC, OFFICE OF COMPUTING ACTIVITIES), NETWORKS FOR HIGHER EQUCATION, PROCEEDINGS OF THE EQUCOM SPRING CONFERENCE, (WASHINGTON, OC, APRIL 13, 1972), INTERUNIVERSITY COMMUNICATIONS COUNCIL INC. (EQUCOM), PRINCETON, NJ, 1972, P 29-35
- AUFENKAMP, Q. Q., NSF NETWORK INITIATIVE, (NATIONAL SCIENCE FOUNDATION, WASHINGTON, DC, DFFICE OF COMPUTING ACTIVITIES) NETWORKS AND DISCIPLINES. PRDCEEDINGS OF THE EDUCOM FALL CONFERENCE, (ANN ARBOR, MI, OCTOBER 11-13, 1973), 1973, P 88-90.3 REFS (ANNOTATION UNDER 1.1)
- EECKER, J., W. C. OLSEN, INFORMATION NETWORKS, (INTERUNIVERSITY COMMUNICATIONS COUNCIL INC. (EDUCOM), PRINCETON, NJ), CUADRA, C. A., ANNUAL REVIEW CF INFORMATION SCIENCE AND TECHNOLOGY, VOLUME 3, ENCYCLOPEDIA BRITANNICA INC., CHICAGO, IL 1968, (GS9.AIA65, LC 66-25096), P 289-327, 190 REFS (ANNOTATION UNDER I.2)
- OIXDN. WILFRID J., GATA AND COMPUTING FACILITIES. (CALIFORNIA: UNIV. OF. LOS ANCELES). GREENEERGER, MARTIN, JULIUS ANDNDFSKY, JAMES L. MCKENNEY, WILLIAM F. MASSY, NETWORKS FOR RESEARCH AND EOUCATION: SHARING COMPUTER AND INFORMATICN RESOURCES NATIONWIDE. MIT PRESS, CAMBRIDGE, MA. 1973, P. 105-114

IN APPROACHING THE QUESTION OF HOW TO MOST EFFECTIVELY PROVIDE ACCESS TO SPECIALIZED COMPUTING PDWER, IT IS DBSERVED THAT CERTAIN BASIC PROCESSING REQUIREMENTS ARE COMMON TO COMPUTER CENTERS REGARDLESS OF THE FIELD OF APPLICATION DR SUBJECT MATTER OF THE INDIVIOUAL JDBS BEING PROCESSED. THESE BASIC FUNCTIONS INCLUGE: OATA DRIGINATION, FILE ACCESS, EDITING, REDRGANIZATION, PREAMALYSIS, ANALYSIS, OISPLAY AND REPORTING, AND DATA CORRECTION AND REDUCTION. THE HEALTH SCIENCES COMPUTING FACILITY AT THE UNIVERSITY OF CALIFORNIA, LOS ANGELES, IS DISCUSSED IN TERMS OF THESE REQUIREMENTS. (ALSO UNDER 1.1, 3.1.0)

FAIBT, L., A. MULLERY, OATA DESCRIPTIVE LANGUAGE FOR SMARED DATA, INTERNATIONAL BUSINESS MACHINES CORP., YORKTOWN HEIGHTS, NY, THOMAS J. WATSON RESEARCH CENTER, 28 JUL 71, IBM-TJWRC RC-3476, 15P

A DATA DESCRIPTION LANGUAGE IS DESCRIBED WHICH PERMITS THE SPECIFICATION OF THOSE ASPECTS OF DATA REPRESENTATION WHICH WOULD BE SUBJECT TO TRANSFORMATION WHEN TRANSFERING DATA IN A NETWORK, TWO DESCRIPTIONS ARE GIVEN TO A *OATA MANAGER*; DNE INDICATES HOW THE DATA IS NOW REPRESENTED; THE OTHER INDICATES HOW IT SHOULD LOOK AFTER TRANSFORMATION. THIS DIFERS FROM THE RAND APPRDACH OF SPECIFYING THE PARTICULAR TRANSLATION ALGORITHMS FOR TRANSFORMING FROM ONE FORM TD THE OTHER. (ALSO UNDER 3+4+9)

- PARRIS, CAVIO 0., JAMES A. HDWARD. ROGER C. WDDD. RESEARCH IN ON-LINE CDMPUTATION. CALIFORNIA, UNIV. DF, SANTA BARBARA, 30 SEP 71. I JUL 70-31 AUG 71. AF F19620-70-C-0314. (AFCRL 71-0530. AD-735 300). B6P. 30 REFS
- THE CONNECTION OF THE UCSB IBM 360 COMPUTER SYSTEM TO THE ARPANET IS ODCUMENTED. THE NETWORK CONTROL PROGRAM AND VARIOUS ASPECTS OF THE UCSB OPERATING SYSTEM ARE DESCRIBED, INCLUDING THE UCSB "ON-LINE SYSTEM". OF INTERESTIS A DISCUSSION OF THE DIGITIZED SPECH RESEARCH EFFORT, PARTICULARLY THE DATA COMPRESSION STUDIES PERMITTING COMPRESSION WITHOUT NCTICEABLE SPEECH DEGRADATION. (ALSD WHORE 3.44.9)
- LICKLIDER, J. C. R., THE DN-LINE INTELLECTUAL COMMUNITY, (INTERNATIONAL BUSINESS MACHINES CORP.), PROCEEDINGS--SECOND NATIDNAL SYMPOSIUM ON ENGINEERING INFORMATION, (NEW YDRK, OCTOBER 27, 1965), ENGINEERS JOINT CCUNCIL. NEW YDRK, OCT 65. (LC 64-5057), P 29-36

THIS PRESENTATION DISCUSSES AN INFORMATION NETWORK FOR SCIENCE AND TECHNOLOGY SPANNING DISCIPLINE AND APPLICATION AREAS AS WELL AS GEOGRAPHY. THE PAPER PRESENTS SOME THOUGHTS ON THE FACILITIES, FUNCTIONS, SERVICES, PRINCIPLES, TECHNIQUES, AND PROBLEMS OF NETWORKING. GETAILED TECHNICAL CONSIDERATIONS AND QUESTIONS OF NETWORK MANAGEMENT ARE NOT GIVEN ATTENTION.

- NOWANDSKI, OONALD 5., STATE INTEGRATED INFORMATION NET (SIINET), A CONCEPT, (WESTERN UNION TELEGRAPH CO., ARLINGTON, Value
- JACKSCN, PETER E., PROCEEDINGS, ACM/IEEE SECOND SYMPOSIUM ON PROBLEMS IN THE OPTIMIZATION OF OATA COMMUNICATION SYSTEMS, {PALD ALTD, CA, DCTDER 20-22, I 971}, I971, IEEE CAT-71C59-C, P 137-147 {ANNDTATION UNDER 3.1.0}

DVERHAGE, CARL F. J., INFORMATICN NETWORKS. (MASSACHUSETTS INST, DF TECH., CAMBRIOGE). CUADRA, C. A., ANNUAL REVIEW DF INFORMATIDN SCIENCE AND TECHNOLDGY. VDLUME 4, ENCYCLOPEDIA BRITANNICA INC., CHICAGD, IL. 1969, (2699,A1A65,V.4., LC 66-25096), P 339-377, I4S REFS (ANNDTATIDN UNDER I.2)

4.2.1 HEALTH AND MEDICAL SCIENCES

CHEN, THOMAS T., DR., SPECIALIZED TERMINAL AND NETWORK (PLATD): AN OVERVIEW OF A MEALTH SCIENCE COMPUTER NETWORK, (ILLINCIS, UNIV, OF, URBANA), COMPCON FALL *75. ELEVENTH IEEE COMPUTER SOCIETY CONFERENCE, HOW TO MAKE COMPUTERS EASIER TO USE, DIGEST OF PAPERS, (WASHINGTON, DC, SEPTEMBER 9-11, 1975), INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YORK, 1975, IEEE 75CHO98D-6C, P 180-191, 112 REFS

A DESCRIPTION OF THE SCOPE AND IMPLEMENTATION OF A HEALTH SCIENCES NETWORK EMPLOYED BY THE UNIVERSITY OF ILLINDIS COLLEGE OF MEDICINE IS PRESENTED.

CHRISTY, P. R., R. HEWLEY, M. S. BLDIS. A NETWORK STRUCTURED MOSPITAL INFORMATION SYSTEM, (CALIFORNIA, UNIV. OF. SAN FRANCISCO, MEDICAL CENTER), CDMPCON 73 - SEVENTH ANNUAL IEEE COMPUTER SOCIETY INTERNATIONAL CONFERENCE. DIGEST OF PAPERS. *COMPUTING NETWORKS FROM MINIS THROUGH MAXIS -- ARE THEY FOR REAL?*. (SAN FRANCISCO. CA. FEBRUARY 27-28. MARCH 1, 19:3), INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS INC., NEW YORK. 1973, (LC 60-1628), P 223-226

4.2.1 HEALTH AND MEDICAL SCIENCES

(ANNOTATION UNDER 3.1.0)

OIFFLEY, MICHAEL W., DESIGN CONSIDERATIONS OF A PPOPOSED LOCAL AREA COMPUTER NETWORK EMPHASIZING THE NEEDS OF THE HEALTH

SCIENCES, WINESOTA, UNIV. OF, MINNEAPOLIS). Gata Retworks: Analysis and Ossign, third data communications symposium, (St. Petersburg, FL. November 13-15, 1973). Institute of electrical and electronics engineers inc., New York, 1973, IEEE CN-73-CH082B-4C, P 97-103, S REFS

THIS PAPER PRESENTS AN OVERVIEW OF THE GESIGN OF A PROPOSED COMPUTER NETWORK INTENDED FOR USE IN HEALTH SCIENCES RELATED ACTIVITIES. THE PROPOSED NETWORK IS AN EXTENSION OF A CURRENTLY OPERATIONAL NETWORK SERVING THE DIVISIONS OF MEALTH COMPUTER SCIENCES (HCS) AT THE UNIVERSITY OF MINNESOTA, THE PRIMARY FUNCTION OF WHICH HAS BEEN TO PROVIDE ACCESS TO THE RESOURCES OF THE HCS CONTROL DATA 3300. (ALSO UNDER 3. 1. 0)

GABRIELI, E. R., DR., MECICAL NETWORK, (E. J. MEYER MEMORIAL HDSPITAL, BUFFALO, NY, CLINICAL INFORMATION CENTER), OATAMATION, VOL 16, ISSUE 4. IS DCT 70, P 42-45

THIS PAPER DESCRIBES THE APPLICATION OF COMPUTERS FOR PROCESSING PRIMARY MEDICAL DATA, EMPHASIZING THE NEED FOR COMPUTER NETWORKS TO PROVIDE RELIABLE ACCESS TO LARGE REFERENCE FILES.

A MEDICAL INFORMATION NETWORK AND CONSTRAINTS ON NETWORKING. (NATIONAL LIBRARY OF MEDICINE.

WASHINGTON, DC), Greenberger, Martin, Julius Aronofsky, James L. McKenney, William F. Massy, Networks for Research and Education: Sharing Computer and Information Resources Nationwide, Mit press, cambridge, Ma, 1973, P 338-344, 2 Refs (Annotaticn Under 3.1.2)

ROCKORE, MAXINE ... HEALTH CARE COMMUNICATION SYSTEMS. (HEALTH SERVICES AND MENTAL HEALTH ADMINISTRATION, ROCKVILLE,

UKUPF, MAAINE LT HERET, SANK VAN MOJ, WINKLER, STALEY, COMPUTER COMMUNICATIONS: IMPACTS AND IMPLEMENTATION, THE FIRST INTERNATIONAL CONFERENCE ON COMPUTER COMMUNICATION, (WASHINGTON, OC, OCTOBER 24-26, 1972), INTERNATIONAL CONFERENCES ON COMPUTER COMMUNICATION, 1972, ICCC 72-CHC-690-BC, NSF GJ-33239, P 465-467

THE POTENTIAL USES OF BROADBAND COMMUNICATIONS IN THE HEALTH CARE FIELD ARE PRESENTED. INCLUDED ARE APPLICATIONS FOR VOICE, VIEDO, AND DATA SIGNALS. A NUMBER OF VERY INTERSTING POSSIBLE SOCIOLOGICAL CONSEQUENCES OF COMMUNICATIONS TECHNOLOGY IN HEALTH CARE ARE ALSO DISCUSSED, CENTERING MOSTLY DN DEPERSDNALIZATION. (ALSO UNDER 1.5, 1.6)

SILVERSTEIN, MARTIN E., COMPUTERS, COMMUNICATIONS, AND DISTRIBUTED HEALTH CARE SYSTEMS, (HEALTH ANALYSIS INC.,

LVERSIEIN, MARTIN E., COMPUTES, COMMUNICATIONS, AND UISTRIBUTED HEALTH CARE STSTEMS: (HEALTH ANALYSIS INC., BETHESDA, MOJ, WINKLER, STANLEY, COMPUTER COMMUNICATIONS: INPACTS AND IMPLEMENTATION, THE FIRST INTERNATIONAL CONFERENCE ON COMPUTER COMMUNICATION, (WASHINGTON, OC, DCTOBER 20-26, 1972); INTERNATIONAL CONFERENCES ON COMPUTER COMMUNICATION, 1972, ICCC 72-CHD-690-BC, NSF 6J-33239, P 463-464 (ANNOTATION UNDER 1.1)

TEAGEP. HERBERT M., THE EXOTIC MEDICAL USER AND THE ONGOING COMPUTER REVOLUTION, (BOSTON UNIV., MA. MEDICAL CENTER). GREENEERGER, MARTIN, JULIUS ARONDESKY, JAMES L. WIKENNEY, WILLIAM F. MASSY, NETWORKS FOR RESEARCH AND EDUCATION: SHARING COMPUTER AND INFORMATION RESOURCES NATIONWIDE, MIT PRESS, CAMBRIDGE, MA, 1973, P 131-142

THE AUTHOR LOOKS AT THE UNIQUE NEEDS OF THE MEDICAL RESEARCH AND CLINICAL CARE COMMUNITY WITHIN THE FRAMEWORK OF A PROPOSED COMPUTER NETWORK. AWONG THE SPECIFIC APPLICATION AREAS HE ADDRESSES ARE PATIENT RECORDS, PATIENT CARE AND MEDICAL RESEARCH. THE CONCLUSION ENUMERATES KEY CONSIDERATIONS FOR A POTENTIAL NETWORK. (ALSO UNDER 3-1-0)

4.2.2 LIBRARY SCIENCE

YSTROM, JOHN, TELECOMMUNICATION NETWORKS FOR LIBRARIES AND INFORMATION SYSTEMS: APPROACHES TO DEVELOPMENT, Becker, Joseph, proceedings of the conference on interlibrary communications and information networks. (Warrenton, Va, September 28-october 2, 1970), american Library association, Chicago, H., 1971, dec 0-9-21028-4235(095), (LC 70-18596), BYSTROM, JOHN, 27-43, 17 REF

THIS STUDY OF LIBRARY INFORMATION NETWORKING ENCOMPASSES POLITICAL AND ECONOMIC IMPLICATIONS AS WELL AS TECHNOLOGICAL INNOVATIONS IN GENERAL TERMS.

CUADRA, CARLOS A., COMPUTER TECHNOLOGY AND LIBRARIES OF THE FUTURE, (SYSTEM DEVELOPMENT CORP., SANTA MONICA, CA), WINKLER, STANLEY, COMPUTER COMMUNICATIONS: IMPACTS AND IMPLEMENTATION. THE FIRST INTERNATIONAL CONFERENCE ON COMPUTER COMMUNICATION, (WASHINGTON, DC, OCTOBER 24-26, 1972), INTERNATIONAL CONFERENCES ON COMPUTER COMMUNICATION, 1972, ICCC 72-CHC-690-BC, NSF 6J-33239, P 472-476

THE CURRENT USE OF COMPUTERS IN LIBRARIES IS OUTLINED, AND THEN REASONABLE PREDICTIONS ARE HADE FOR AN EXPANDED RCLE. INCLUDED IN THE EXPANDED ROLE ARE THE FOLLOWING: ON-LINE CATALOGS, COMPUTER SUPPLEMENTED REFERENCE AND CIRCULATION FUNCTIONS, AND ADDITIONAL INTERNAL LIBRARY PROCESSING. (ALSO UNDER 1.6)

HAYES, ROBERT M., BIBLIDGRAPHIC PROCESSING AND INFORMATION RETRIEVAL. (BECKER AND MAYES INC.), GPEENBERGER, MARTIN, JULIUS ARONOFSKY, JAMES L. MCKENNEY, WILLIAM F. MASSY. NETWORKS FOR RESEARCH AND EDUCATION: SHARING COMPUTER AND INFORMATION RESOURCES NATIONNIOS: MIT PRESS, CAMBRIDGE, MA, 1973, P 161-164

THE APPLICATIONS FOR A NATIONAL SCIENCE COMPUTER NETWORK FOR BIBLIOGRAPHIC PROCESSING AND INFORMATION RETRIEVAL HAVE BEEN PROVEN TECHNICALLY FEASIBLE, AND OPERATIONALLY USEFUL. THE AUTHOR SUMMARIZES THE RELEVANT CHARACTERISTICS OF SUCH APPLICATIONS AND POINTS OUT ADDITIONAL POSSIBILITIES FOR UTILIZING COMPUTER NETWORKS. (ALSO UNDER 4.0)

KILGOUR, FREDERIOK G., LIBRARY NETWORKS. (OHIO COLLEGE LIBRARY CENTER). NETWORKS AND DISCIPLINES. PROCEECINGS OF THE EDUCOM FALL CONFERENCE. (ANN ARBOR, MI, OCTOBER 11-13, 1973), 1973, P 38-41. 10 REFS

A SHORT PAPER IS PRESENTED GIVING AN OVERVIEW OF LIBRARY AND INFORMATION NETWORKS PRESENTLY AVAILABLE AND PLANNED FOR THE FUTURE. THE AUTHOR ALSO INCLUDES A DISCUSSION OF THE IMPORTANCE OF THESE NETWORKS FOR LIBRARY PRODUCTIVITY.

4.2.3 FOUCATION

- OEGRASSE, RICHARO V., REMOTE COMPUTING IN HIGHER EQUCATION: PROSPECTS FOR THE FUTURE, VERMONT, UNIV. OF, BURLINGTON. ACADEMIC COMPUTING CENTER, CEC 71, NSF GJ-947, 103P, S3 REFS (ANNOTATION UNDER 1.1)
- ECUCATICNAL COMPUTER NETWORKS. WHERE IS THE BOOM MEADING?, GOVERNMENT DATA SYSTEMS, VOL 3, ISSUE 3, MAY-JUN 73, P I4-IS, 18, 31, 35 (ANNOTATION UNDER 1.2)
- MILLER, JAMES G., EOUCOM: INTERUNIVERSITY COMMUNICATIONS COUNCIL, INTERUNIVERSITY COMMUNICATIONS CDUNCIL INC. (EOUCOM). PRINCETON, NJ, MAY 66, 22P (ANNOTATION UNDER 1.1)
- BIN, MARTIN L., BEVERLY HUNTER, MARILYN KNETSCH, EVALUATION OF THE EXPERIMENTAL CAI NETWORK (1973-1975) DF THE LISTER HILL NATICNAL CENTER FOR BIOMEDICAL COMMUNICATIONS, NATIONAL LIBRARY OF MEDICINE, HUMAN RESOURCES RESEARCH ORGANIZATION (HUMRRO), ALEXANORIA, VA, EASTERN DIV., JAN 75, HUMRRO FR-ED-75-1, NOI-LM-4-4725, (LHNCBC 75-03, PB-239 358), 77P (ANNOTATICN UNDER 2.2) RUBIN. MARTIN L ..
- SEIDER, WARREN 0., LAWRENCE 8. EVANS, ARTHUR WESTERBERG, COMPUTERS IN EDUCATION: HOW CHEMICAL ENGINEERS ORGANIZED THE CACHE COMMITTEE, (PENNSYLVANIA, UNIV. OF, PHILAOELPHIA, OEPT. OF CHEMICAL ENGINEERING, MASSACHUSETTS INST. OF TECH., CAMBRIDGE, DEPT. OF CHEMICAL ENGINEERING, FLORIDA, UNIV. OF, GAINESVILLE, DEPT. OF CHEMICAL ENGINEERING), ECUCOM BULLETIN. VOL 8. ISSUE 2. SUMMER 73. P 10-17. 7 REFS

THE ORGANIZATION, ACCOMPLISHMENTS AND ON-GOING ACTIVITIES OF THE CACHE COMMITTEE ARE PRESENTED. THE

4.2.3 EDUCATION

AUTHORS DESCRIBE HOW THE COMMITTEE, COMPRISED OF CHEMICAL ENGINEERING EDUCATORS, IS ENCOURAGING THE USE OF COMPUTERS IN CHEMICAL ENGINEERING EDUCATION, THE SHARING OF SOFTWARE RESDURCES, AND STIMULATING RESEARCH.

4.2.9 OTHER

- ARONDESKY, JULIUS, COMPUTER USAGE IN THE NATURAL SCIENCES, REPORT OF WORKSHOP I, (SOUTHERN METHODIST UNIV., DALLAS, TX) GREENBERGER, MARTIN, JULIUS ARONDESKY, JAMES L. MCKENNEY, WILLIAM F. MASSY, NETWORKS FOR RESEARCH AND EDUCATION: SHARING COMPUTER AND INFORMATION RESOURCES NATIONWIDE, MIT PRESS, CAMBRIDGE, MA, 1973, P 99-I04 (ANNOTATION UNDER I.)
- BERG, SANFORD V., NETWORKS IN ECONOMICS, (FLORIDA, UNIV. OF, GAINESVILLE). NETWORKS AND LISCIPLINES, PROCEEDINGS OF THE EDUCOM FALL CONFERENCE, (ANN ARBOR, MI, OCTOBER 11-13, 1973), 1973, P 2S-37, B REFS

THE USE OF COMPUTER NETWORKS TO COMBINE USERS, SYSTEMS MANAGEMENT, HAR DWARE, SOFTWARE AND DATA TO CREATE A MORE EFFICIENT RESEARCH ENVIRONMENT IN ECONOMICS IS EXAMINED, SOME RESULTS FROM INTERNATIONAL TRADE THEORY ARE APPLIED TO NETWORKING EFFCRTS IN ECONOMICS. (ALSO UNDER S,1)

CFENHALL, RCBERT G., NETWORKS FOR MUSEUMS AND RELATED DISCIPLINES. (ARKANSAS, UNIV. OF, FAYETTEVILLE, MUSEUM DATA BANK COORDINATING COMMITTEE), NETWORKS AND LISCIPLINES. PROCEEDINGS OF THE EDUCOM FALL CCNFERENCE, (ANN ARBOR, MI, OCTOBER 11-13, 1973), 1973, P 42-48: 3 REFS

THE ADVANTAGES OF COMPUTER AND COMPUTER NETWORK USE FOR CATALOGING INFORMATION ON ANY TYPE OF COLLECTION ARE DISCUSSED. Various existing systems are described such as griphos, selgem, taxir, gipsy and sarg. Finally a discussion of a new Drganization, the museum data bank cordinating committee, its functions and goals is presented.

CAVIS, PUTH M., THE NATIONAL BIOMEDICAL COMMUNICATIONS NETWORK AS A DEVELOPING STRUCTURE, (NATIONAL BUREAU OF STANDARDS, WASHINGTON, DC. CENTER FOR COMPUTER SCIENCES AND TECHNOLOGY), BECKER, JOSEPH, PROCEEDINGS OF THE CONFERENCE ON INTERLIBRARY COMMUNICATIONS AND INFORMATION NETWORKS, (WARRENTON, VA, SEPTEMBER 28-OCTOBER 2, 1970), AMERICAN LIBRARY ASSOCIATION, CHICAGO, IL, 1971, DEC 0-9-230288-4235(095), (LC 70-16596), P 294-309, 4 REFS (ANNOTATION LNDER 3.0)

GREENBERGER, MARTIN, NUMERICAL DATA BASES, STATISTICAL ANALYSIS, AND MODELING. REPORT OF WORKSHOP 2, (JOHNS HOPKINS UNIV.),

GREENBERGER, MARTIN, JULIUS ARONOFSKY, JAMES L. MCKENNEY, WILLIAM F. MASSY, NETWORKS FOR RESEARCH AND EDUCATION: SHARING COMPUTER AND INFORMATICN RESOURCES NATIONWIDE, MIT PRESS, CAMBRIDGE, MA, 1973, P IIS-130, 3 REFS

THE WORKSHOP EXAMINED THE CHARACTERISTICS AND MEEDS OF BEHAVIDRAL SCIENTISTS AND OTHERS WHO USE COMPUTERS IN SIMILAR WAYS IN ORDER TO SPECIFY THE NEEDS AND DESIRES FOR A NATIONAL NETWORK FOR THIS CLASS OF USERS. THE WORKSHOP ALSO CONSIDERED THE CONSTITUENT GROUPS WHOSE PARTICIPATION AND SUPPORT MIGHT BE CRITICAL TO THE CAUSE OF IMPROVED RESOURSE SHARING THROUGH NETWORKS.

KILGOUR, F. G., A REGIONAL NETWORK--OHIO COLLEGE LIBRARY CENTER, (OHIO COLLEGE LIBRARY CENTER), DATAMATICN, VOL 16, ISSUE 2, FEB 70, P 87-89

THE OHID COLLEGE LIBRARY CENTER NETWORK IS DESCRIBED. THE NETWORK, BEING PLANNED WHEN THIS ARTICLE WAS WRITTEN, WILL OFFER OHID COLLEGES AND UNIVERSITIES CN-LINE RETRIEVAL FROM A CENTRAL CATALOG, SERIALS CONTROL, AND COMPUTERIZED ACCUISITION AND CATALOGING SUPPORT.

KULLENBERG, HANS, APPLICATION OF COMPUTER COMMUNICATIONS IN THE AIR TRANSPORT INOUSTRY, (SCANDINAVIAN AIRLINES SYSTEM, BROMMA, (SWEDERN), THE SECOND INTERNATIONAL CONFERENCE ON COMPUTER COMMUNICATION. COMPUTER COMMUNICATION TODAY AND UP TO 1985, (STOCKHOLM, (SWEDEN), AUGUST 12-14, 1974), INTERNATIONAL COUNCIL OF ICCC, 1974, P 67-70

THE AUTHOR AVOIDS ALL TECHNICAL DETAILS OF COMPUTER NETWORKS AND TECHNOLOGIES USED IN THE AIR TRANSPORT INDUSTRY. RATHER, EMPHASIS IS PLACED ON THE COMPLEX AND INTERRELATED FUNCTIONS BEHIND THE SCENES OF THIS INDUSTRY WHICH ARE ACCOMPLISHED BY NETWORKS TO SERVE THE PUBLIC.

LYKGS, PETER, NETWORKING AND CHEMISTRY, (NATIONAL SCIENCE FOUNDATION, WASHINGTON, DC, OFFICE OF COMPUTING ACTIVITIES), NETWORKS AND DISCIPLINES. PROCEEDINGS OF THE EDUCOM FALL CONFERENCE, (ANN ARBOR, MI, OCTOBER II-I3, 1973), 1973, P 12-I9, B REFS

THERE ARE MANY AREAS IN WHICH THE COMPUTER PLAYS A BASIC AND COMPREHENSIVE SUPPORTING ROLE IN CHEMISTRY. A GENERAL Discussion is given on the applications of computers and computer networks in chemistry. Four projects involving Chemistry research and computers are described. Finally areas for the future use of computers in chemistry are discussed./

MARRON, BEATRICE, ELIZABETH FONG, OENNIS W. FIFE, KIRK RANKIN, A STUDY OF SIX UNIVERSITY-BASED INFORMATION SYSTEMS, NATIONAL BUREAU OF STANDARDS, WASHINGTON, DC, INST. FOR COMPUTER SCIENCES AND TECHNOLOGY, JUN 73, NBS TN-781, NSF CA6B, SEP

(ANNOTATION UNDER 1,2)

SEDELOW, SALLY YEATES, WALTER A, SEDELOW, JR., LANGUAGE RESEARCH AND THE COMPUTER: A STUDY OF THE CONCEPT OF A NATIONAL CENTER OR NETWORK FOR COMPUTATIONAL RESEARCH ON LANGUAGE (CE-NCOREL), KANSAS, UNIV. OF, LAWRENCE, 1972, NSF GJ-28599, 4679, A1 REFS

THIS REPORT IS THE RESULT OF AN EXTENSIVE STUDY OF THE CONCEPT OF A NATIONAL CENTER OR NETWORK FOR COMPUTATIONAL RESEARCH ON LANGUAGE (CE-NCOREL) THAT INCLUDED DISCUSSIONS WITH SCIENTISTS, SCHOLARS, AND ADMINISTRATORS AT A VARIETY OF INSTITUTIONS ABOUND THE COUNTRY. THREE CHAPTERS ARE PARTICULARLY INTERSTING FOR THEIR NETWORKING IMPLICATIONS ONE DISCUSSES AVAILABILITY AND RELIABILITY (IN ORDER OF IMPORTANCE) OF SOFTWARE SUITABLE FOR LANGUAGE RESEARCH AND OF VALIDATION AND STANDARDIZATION PROBLEMS IN MAXING IT NATIONALLY AVAILABLE. ANDTHER CONSIDERS HARGWARE COMPATIBLE WITH THE NEEDS OF LANGUAGE AND RELATED RESEARCH. INCLUDING TERMINAL DEVICES. INTERMEDIATE STORAGE OVICES, AND CORE REQUIREMENTS. THE THIRD DISCUSSES DRGANIZATIONAL MATTERS OF A NATIONAL LANGUAGE RESEARCH NETWORK OR CENTER, CONCLUDING THAT A MAJOR CENTER FOR RESEARCH CONDUCTED IT WOULD HAVE BEEN INTERRESTING TO INCLUDE A SECTION ON EXISTING CENTERS OF EXCELLENCE IN PARTICULAR AREAS OF LANGUAGE RESEARCH AND TO CONSIDER THE POSSIBILITY OF ORGANIZING THEN INTO A NETWORK.

SEDELOW, WALTER, THE CE/NCOREL STUDY, (KANSAS, UNIV, OF, LAWRENCE, DEPTS. OF SOCIOLOGY AND COMPUTER SCIENCE), NETWORKS AND DISCIPLINES. PROCEEDINGS OF THE EDUCOM FALL CONFERENCE, (ANN ARBOR, MI, OCTOBER 11-13, 1973), 1973, P 20-24, 1 REFS

A STUDY WAS FUNDED FOR INVESTIGATING THE CONCEPT OF A CENTER OR NETWORK FOR COMPUTATIONAL RESEARCH ON LANGUAGE (CE/NCOREL). GOALS OF THE STUDY AND SOME RESULTANT CONCLUSIONS ARE PRESENTED. (SEE SEDELOW'S, "LANGUAGE RESEARCH AND THE COMPUTER" IN CATEGORY 4.2.)

SHULL, FARRISON, RESOURCE SHARING IN THEORETICAL CHEMISTRY, (INDIANA, UNIV. OF. BLOOMINGTON), GREENBERGER, MARTIN, JULIUS ARONOFSKY, JAMES L. MCKENNEY, WILLIAM F. MASSY, NETWORKS FOR RESEARCH AND EDUCATION: SHARING COMPUTER AND INFORMATION RESOURCES NATIONWIDE, MIT PRESS, CAMBRIDGE, MA, 1973, P 263-272

THE AUTHOR DISCUSSES ASPECTS OF TWO DIFFERENT FORMS OF RESOURCE SHARING IN THE FIELD OF THEORETICAL CHEMISTRY: The guantum chemistry program, a small active operation; and the national laboratory for computational chemistry, only in the proposal stage at the time of this regord,

THE FBI'S COMPUTER NETWORK, (FEDERAL BUREAU OF INVESTIGATION, WASHINGTON, OC), DATAMATION, VOL 16, ISSUE 6, JUN 70, P 146-147, IS1

THE NATIONAL NETWORK THAT PROVIDES ACCESS TO THE FBI NATIONAL CRIME INFORMATION CENTER (NCIC) IS DESCRIBED. AN IBM 360/50 AT NCIC IS CONNECTED TO OVER 90 TERMINALS, BOTH TELETYPES AS WELL AS STATE AND LOCAL COMPUTERS, AND ITS RESPECKE TO INDUIRIES AVERAGES S-ID SECONDS. OTHER FBI COMPUTER APPLICATIONS ARE BRIEFLY COVERED. 4.2.5 OTHER

THOMAS, FOBERT H.. D. AUSTIN HENDERSON, MCROSS--A MULTI-COMPUTER PROGRAMMING SYSTEM, (BOLT, BERANEK AND NEWMAN INC., IOMAS, FOBERT H., D. AUSTIN HENDERSON, MENUSS--A MULTI-COMPUTER PROGRAMMING STSTEM, (BOLT, BERAMEK AND NEMMAN INC., Cambridge, Ma), Afips Conference, 1972 Spring joint computer conference, volume 40, (Atlantic City, Nj, May 16–18, 1972), Afips Dress, Montvale, Nj, 1972, Afips Conference Proceedings, (LC 55-44701), P 281-293, 10 REFS

ONE OF THE FEW REPORTED INSTANCES OF A DISTRIBUTED PROCESSING SYSTEM FOR A SINGLE APPLICATION, I.E., AN APPLICATION REQUIRING THE EXECUTION OF PROGRAMS SIMULTANEOUSLY ON SEVERAL PROCESSORS AND GENERATING TRUE PROCESS TO PROCESS COMMUNICATION, IS DESCRIBEO. THE APPLICATION IS AN AIR TRAFFIC CONTROL SIMULATION, AND THE HOST PROCESSORS ARE ALL POP-10 TENEX SYSTEMS ON THE ARPA NETWORK. THE PAPER DOES NOT DWELL ON THE AIR TRAFFIC CONTROL APPLICATION, BUT FOCUSES ON THE SYSTEM DESIGN AND DETAILS OF THE INTERPROCESS COMMUNICATIONS.

TORREY, S. E., IDEEA NETWORK IMPLEMENTATION FISCAL YEAR 1965, FRANKFORD ARSENAL, PHILADELPHIA, PA, FIRE CONTROL ENGINEERING DIRECTORATE, JAN 66, FA-FCED M66-16-1, 0A 20023201A720, (AD-629 225), 21P, I REFS

A CENCEPTUAL PLAN FOR A FIVE STATION EXPERIMENTAL SYSTEM FOR THE STORAGE, RETRIEVAL, AND DISSEMINATION OF CHEMICAL DATA IS DESCRIBED. A NUMBER OF DIFFERENT MILITARY COMPUTERS ARE TO BE CONNECTED VIA THE PUBLIC SWITCHED NETWORK.

4.3 COMPUTER LTILITY

ALDEN, R. M., THE WIRED CITY: THE ROLE OF AN INDEPENDENT TELEPHONE COMPANY. (UNITED TELECOMMUNICATIONS INC., KANSAS MO) .

VINKLER, STANLEY, COMPUTER COMMUNICATIONS: IMPACTS AND IMPLEMENTATION. THE FIRST INTERNATIONAL CONFERENCE ON COMPUTER COMMUNICATION, (MASHINGTON, DC. OCTOBER 24+26, 1972), INTERNATIONAL CONFERENCES ON COMPUTER COMMUNICATION, 1972, ICCC 72-CHD-690-68, NSF 6J-33239, P 417-419

THE CONCEPT OF A WIRED CITY FOR MAKING ACCESSIBLE AN ENORMOUS RESERVOIR OF COMMUNICATIONS RESOURCES TO HOMES AND BUSINESSES SCATTERED OVER AN ENTIRE CITY IS DISCUSSED. THE ASPECTS CONSIDERED RELATE TO GEOGRAPHY. AVALABLITY OF SPACE, ELECTRICAL INTERFERENCE, MULTIPLEXING TECHNIQUES, AND MARKET DEMAND. AN INTERESTING CONCLUDING STATEMENT DECLARES THAT THOSE WHO PROVIDE THE FACILITIES WILL NECESSARILY BE COMMON CARRIERS. (ALSO UNCER 1.6)

BACHRACH, MORTON W., COPYRIGHT ASPECTS OF CATV AS UTILIZED IN INFORMATION NETWORKING, BECKER, JOSEPH, PROCEEDINGS OF THE CONFERENCE ON INTERLIBRARY COMMUNICATIONS AND INFORMATION NETWORKS, (WARRENTON, VA, SEPTEMBER 28-OCTOBER 2, 1970), AMERICAN LIERARY ASSOCIATION, CHICAGO, IL, 1971, OEC 0-9-230288-4235(095), (LC 70-18596), P 153-159, 46 RES

THE LEGAL CONSTRAINTS RELATED TO THE USE OF CABLE TV AS PART OF FUTURE NATIONAL INFORMATION NETWORKS ARE SUMMARIZED. THE DISCUSSION IS CONCENTRATED ON COPYRIGHT PROBLEMS OF TV PROGRAM RETRANSMISSION AND DOES NOT EXPLICITLY ADDRESS ASPECTS OF DATA TRANSMISSION. (ALSO LNDER S.4)

BARAN, PAUL, THE COMING COMPUTER UTILITY--LAISSEZ-FAIRE, LICENSING OR REGULATION?, RAND CORP., SANTA MONICA, CA. APR 67.

(ANNOTATION UNDER 5.4)

BAUER, WALTER F., COMPUTER/COMMUNICATIONS SYSTEMS: PATTERNS AND PROSPECTS, (INFORMATICS INC., SMERMAN DAKS, CA), GRUENBERGER, F., COMPUTERS AND COMMUNICATIONS--TOWARD A COMPUTER UTILITY, PRENTICE-HALL INC., ENGLEWOOD CLIFFS, NJ, ISOB, (TK SI01.667, LC 60-16776). P I3-37, 11 REFS (ANNOTATION UNDER 1.0)

BEERE. MAX P.. TELEPROCESSING--THE UTILITY OF THE COMPUTER UTILITY NEW PROBLEMS? NEW CHALLENGE!. (TYMSHARE INC...

CUPERTING (MAR P., TELEPROLESSING THE OTTELLY OF THE COMPOLER OTTELLY HE PROBLEMS) NEW CHALLENGE:, (TYMSHARE INC., VINKLER, STANLEY, COMPUTER COMMUNICATIONS: IMPACTS AND IMPLEMENTATION. THE FIRST INTERNATIONAL CONFERENCE ON COMPUTER COMMUNICATION, (WASHINGTON, CO. OCTOBER 24-26, 1972), INTERNATIONAL CONFERENCES ON COMPUTER COMMUNICATION, 1972, ICCC 72-CH0-690-8C, NSF GJ-33239, P 235-236

WE (COMPUTER COMMUNICATION'S ENTREPRENEURS) ARE KNEE DEEP IN WEEDS AND THOUGH HELP IS IN SIGHT, IT IS NOT AVAILABLE AT PRESENT. AND THERE ARE INDIANS IN THE WODDS TOD - THE FCC, PUC, OTP, AND THE BELL SYSTEM - AND THEY HAVE MANY SCALPS HANGING IN THEIR LODGES. READ THIS ONE FOR THE PROSE AND FOR SOME INTRIGUING VIEWPOINTS.

CARLSON, WILLIAM E., STEPHEN D. CROCKER, THE IMPACT OF NETWORKS ON THE SOFTWARE MARKETPLACE. (AIR FORCE DATA AUTOMATION AGENCY, WASHINGTON, DC, AIR FORCE DATA SERVICES CENTER, DEFENSE ADVANCED RESEARCH PROJECTS AGENCY, ARLINGTON, VA), EASCON *74. IEEE ELECTRONICS AND AEROSPACE SYSTEMS CONVENTION, (WASHINGTON, DC, OCTOBER 7-9, 1974), INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YORK, 1974, IEEE 74-CHO-883-I-AES, (LC 73-2277), P 304-308, 11 REFS

THIS PAPER DESCRIBES A NE⇒ TYPE OF PROJECT WHICH WILL USE THE ARPANET AS A BASIS. THE NATIONAL SOFTWARE WORKS WILL OFFER A COLLECTION OF NETWORK-BASED TOOLS TO EXPEDITE THE DESIGN. DEVELOPMENT, TESTING AND DOCUMENTATION OF COMPUTER SOFTWARE. THE NETWORK IS VIEWED AS PROVIDING A NEW TYPE OF NARKETPLACE FOR THE DISTRIBUTION OF THESE TOOLS. IT IS RECONTIZED THAT THE CREATION OF EFFICIENT FINANCIAL MECHANISMS FOR THIS MARKETPLACE WILL BE A KEY FACTOR IN ACHIEVING MAXIMUM BENEFITS FROM THE NEW TECHNOLOGY. THE TYPES OF TOOLS TO BE INITIALLY PROVIDED AND THE CHARACTERISTICS OF THE MAXIMUM BENEFITS FROM THE NEW TECHNOLOGY. THE TYPES OF TOOLS TO BE INITIALLY PROVIDED AND THE CHARACTERISTICS OF THE MAXIMUM BENEFITS FROM THE NEW TECHNOLOGY. THE TYPES OF TOOLS TO BE INITIALLY PROVIDED AND THE CHARACTERISTICS OF THE MAXIMUM BENEFITS FROM THE NEW TECHNOLOGY. THE TYPES OF TOOLS TO BE INITIALLY PROVIDED AND THE CHARACTERISTICS OF THE MAXIMUM BENEFITS FROM THE NEW TECHNOLOGY. THE TYPES OF TOOLS TO BE INITIALLY PROVIDED AND THE CHARACTERISTICS OF THE MAXED TO THE DESCRIBED. ISSUES SUCH AS THE NEEDED FINANCIAL MECHANISMS ARE IDENTIFIED BUT DETAILED SOLUTIONS ARE ALSO UNDER S.2. S.7)

CLARK, DAVID D., ROBERT M. GRAMAM, JEROME H. SALTZER, MICHAEL D. SCHROEDER, THE CLASSROOM INFORMATION AND COMPUTING SERVICE, MASSACHUSETTS INST. OF TECH., CAMBRIDGE, PROJECT MAC. 11 JAN 71, MIT-MAC TR-B0, NONR 4102(01). 278P

A HYPOTHETICAL TIME-SHARING SYSTEM THAT SATISFIES THE EOUCATIONAL REQUIREMENTS FOR A COURSE IN COMPUTER SCIENCE IS PRESENTED. ITS STATED GOALS ARE: TO ACT AS A TOOL FOR COMPUTER SCIENCE STUDENTS, LEAN ENOUGH FOR A ONE SEMESTER COMPREENSION, BUT COMPLETE ENOUGH TO TRACE THE SERVICE OBJECTIVES OF THE SYSTEM ORGANIZATION; TO OCCUMENT MECHANISMS IN MULTICS WHICH ARE GENERAL SOLUTIONS TO SERVICE OBJECTIVES; AND THE SIMPLIFICATION OF MULTICS WITHOUT SACRIFICING 0ASIC SERVICE OBJECTIVES. DETAILED DESCRIPTIONS OF THE SOFTWARE, CIMPL (THE SYSTEM IMPLEMENTATION LANGUAGE WHICH LOOKS LIKE PL/1), THE HARDWARE, AND THE FILE SYSTEM (LIKE MULTICS) ARE GIVEN. ALL ARE CLOSELY RELATED TO MULTICS, (ALSO UNDER 3.1.0)

FEENEY, GEORGE J., THE FUTURE OF COMPUTER UTILITIES, (GENERAL ELECTRIC CO., BETHESOA, MO), WINKLER, STANLEY, COMPUTER COMMUNICATIONS: IMPACTS AND IMPLEMENTATION, THE FIRST INTERNATIONAL CONFERENCE ON COMPUTER COMMUNICATION, (WASHINGTON, OC, OCTOBER 24-26, 1972), INTERNATIONAL CONFERENCES ON COMPUTER COMMUNICATION, 1972, ICCC 72-CHC-690-8C, NSF GJ-33239, P 237-239

THIS IS A POLEMIC IN SUPPORT OF CENTRALIZATION OF PROCESSING POWER IN A COMPUTER NETWORK. PROCESSING POWER FOR GENERAL ELECTRIC'S TIMESHARING NETWORK, ORIGINALLY DISTRIBUTED OVER IT CENTERS, HAS NOW BEEN CENTRALIZED IN DNE "SUPERCENTR'. A NUMBER OF ARGUMENTS IN SUPPORT DF THIS APPROACH AND SOME REMARKS ON NETWORK MANAGEMENT ARE PRESENTED. THE PAPER'S MAJOR SHORTCOMING IS A LACK OF NUMBERS TO BACK UP ECONOMIC ARGUMENTS. (ALSO UNDER S.0)

NTILE, R. 8., J. R. LUCAS, JR., THE TABLON MASS STORAGE NETWORK, (DEPARTMENT OF DEFENSE, WASHINGTON, DC), AFIPS CONFERENCE PROCEEDINGS, VOLUME 38, 1971. SPRING JOINT COMMUTER CONFERENCE, (ATLANTIC CITY, NJ, MAY 18-20, 1971), AFIPS PRESS, MONTVALE, NJ, 1971. AFIPS CONFERENCE PROCEEDINGS, (LC SS-44701), P 34S-356, 6 REFS (ANNOTATION UNDER 3.3.9) GENTILE. R. A.

GRISETIE ROBERT S., THE SWITHESIS OF COMMUNICATIONS AND COMPUTERS. (WESTERN UNION TELEGRAPH CO.). GRUENBERGER, F., COMPUTERS AND COMMUNICATIONS--TOWARD A COMPUTER UTILITY, PRENTICE-HALL INC., ENGLEWOOD CLIFFS. NJ, 1968. (TK SIDILCOT, LC 06-16776), P 205-219 (ANNOTATION UNDER 3.2.2)

H. W. SILVERMAN, NETWORKS F CR COMPUTER UTILITIES. (RADIO CORP. OF AMERICA, BURLINGTON, MA. RADIO CORP. OF AMERICA, VAN NUYS, CA). COMPCON 73 - SEVENTH ANNUAL IEEE COMPUTER SOCIETY INTERNATIONAL CONFERENCE. DIGEST OF PAPERS. *COMPUTING NETWORKS FROM MINIS THROUGH MAXIS - ARE THEY FOR REAL?*, (SAN FRANCISCO, CA, FEBRUARY 27-28, MARCH I, 1973), INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS INC., NEW YORK, 1973, (LC 68-1628), P 195-197 4.3 COMPUTER UTILITY

THIS PAPER CONSIDERS COMPUTER NETWORKS WHICH, LIKE THE ELECTRIC OR GAS UTILITY, ARE CAPABLE OF BRINGING PROCESSING CAPABILITY TO A DISTRIBUTED USER POPULATION WITH VARVING USAGE NEEDS. THE NETWORKS DESCRIBED IN THIS PAPER, WHICH INCLUDE ONE INSTALLEC AT WAIT DISNEY WORLD, ARE GENERAL PURPOSE IN THAT THE SAME PHYSICAL INTERCONNECTIONS CAN BE USED FOR FEDERATED OR CENTRALIZED SYSTEMS AND SOFTWARE CONTROL CAN OPERATE THE NETWORK IN A LODSELY OR TIGHTLY COUPLED MANNER. THE NETWORK TECHNIQUES DESCRIBED PROVIDE A GENERALIZED MEANS OF DISTRIBUTING THE PROCESSES DE A UTILITY.

HEATH, FRANK R., FACTORS FOR EVALUATION OF INTEGRATED ON-LINE INFORMATION SYSTEMS, (CARRIER CORP., SYRACUSE, NY), GRUENBERGER, F., COMPUTERS AND COMMUNICATIONS--TOWARD A COMPUTER UTILITY, PRENTICE-HALL INC., ENGLEWODO CLIFFS, NJ, 1566, (TK SIDI.607, LC 68-16776), P 151-172 (ANNOTATION UNDER 5.0)

HIRSCH. PHIL, MULTI-ACCESS COMPUTER NETWORKS, DATAMATION, VOL 16, ISSUE 6, JUN 70, P 153-154

SOME ISSUES IN COMPUTER NETWORKING ARE DISCUSSED THROUGH EXTENSIVE RELIANCE ON EXAMPLES. THE TOPICS INCLUGE THE LEGAL ISSUES RELATIVE TO COMMON AND SPECIALIZED CARRIERS, PROBLEMS OF NETWORK STANDARDS, AND ALTERNATIVE IMPLEMENTATIONS./ (ALSO UNDER 1.2)

JDHNSON, LELAND L., SOME IMPLICATIONS OF NEW COMMUNICATIONS TECHNOLOGIES FOR NATIONAL SECURITY IN THE 19705, RAND CORP., SANTA MONICA, CA. SEP 67. RC P-3639. (AD-658 424). 24P. 14 REFS (ANNOTATION UNCER 5.4)

KIRSTEIN, PETER T., ON THE OEVELOPMENT OF COMPUTER AND OATA NETWORKS IN EUROPE, (LONDON, UNIV. OF, (ENGLAND)), WINKLER, STANLEY, COMPUTER COMMUNICATIONS: IMPACTS AND IMPLEMENTATION. THE FIRST INTERNATIONAL COMFERENCE ON COMPUTER COMMUNICATION, (WASHINGTON, OC, OCTOBER 24-26, 1972), INTERNATIONAL CONFERENCES ON COMPUTER COMMUNICATION, 1972, ICCC 72-CHC-590-BC, NSF GJ-33239, P 240-244, IO REFS (ANNOTATION UNDER 1.2)

RILL, THOMAS, DALE STERN, THE DATACOMPUTER--A NETWORK DATA UTILITY, (COMPUTER CORP. OF AMERICA, CAMBRIDGE, MA), AFIPS CONFERENCE PROCEEDINGS, VOLUME 44. 1975. NATIONAL COMPUTER CONFERENCE, (ANAHEIM, CA, MAY 19-22, 1975), AFIPS PRESS, MCNTVALE, NJ, 1975, (LC SS-44701), P 389-395, 9 REFS MARILLA THOMASA (ANNOTATION UNDER 4.1.9)

WASON, W. F., R. K. LAY, THE WIRED CITY: SERVICES FOR HOME DELIVERY VIA INTERACTIVE CABLE TV. (MITRE CORP., WASHINGTON, OC), WINKLER, STANLEY, COMPUTER COMMUNICATIONS: IMPACTS AND INFLEMENTATION. THE FIRST INTERNATIONAL CONFERENCE ON COMPUTER COMMUNICATION, (WASHINGTON, DC, OCTOBER 24-26, 1972), INTERNATIONAL CONFERENCES ON COMPUTER COMMUNICATION, 1972, ICCC 72-CHO-690-80, NSF GJ-33239, P 420-424

THE USES OF TIME SHARED INTERACTIVE COMPUTER CONTROLLED INFORMATION TELEVISION (TICCIT) ARE EXPLORED FROM THE STANDPOINT OF BENEFITS TO USERS AND PROFITS TO SERVERS. AN APPENDIX SUPPLIES SOME COST PROJECTIONS. (ALSO UNCER 1.6, S+2)

MAUTZ. ROBERT 8., STATEWIDE PLANNING AND REGIONAL CENTERS, (STATE UNIVERSITY SYSTEM OF FLORIDA), THE FINANCING AND ORGANIZATION OF COMPUTING IN HIGHER EQUCATION: 1971, PROCEEDINGS OF THE EDUCOM SPRING CONFERENCE, (MILADELFHIA, PA, APRIL 29, 1971), PIO-17

THE AUTHOR EXPRESSES HIS PHILOSOPHY WITH RESPECT TO THE RDLE OF COMPUTERS IN UNIVERSITIES. THIS PHILOSOPHY WAS SHAPED BY 20 YEARS OF ASSOCIATION WITH THE UNIVERSITY OF FLDRIDA, ONE OF THE EARLIEST UNIVERSITIES TO UTILIZE ELECTRONIC DATA PROCESSING MACHINES FOR ADMINISTRATIVE PURPOSES. HE OBSCRIDES TWO PROGRAMS HE HAS INAUGURATEO IN HIS PRESENT POSITION, 'COMPUTER SHARING' AND 'SYSTEM SHARING', AND DISCUSSES PLANS BEING CONSIDERED BY THE UNIVERSITY SYSTEM FOR ADDITIONAL COMPUTER SHARING. (ALSO UNDER 1.1)

MCCRE, K. ROGER, OR., ECONOMICS OF THE NETWORK MARKETPLACE, (TEXAS TECH UNIV., LUBBOCK, ARMY COMPUTER SYSTEMS COMMAND, FORT BELVOIR, VA), EASCON '74, IEEE ELECTRONICS AND AEROSPACE SYSTEMS CONVENTION, (WASHINGTON, DC, DCTDBER 7-9, 1974), INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YORK, 1974, IEEE 74-CHO-863-1-AES, (LC 73-2277), P 294-302, 90 REFS (ANNOTATION UNDER 5.2)

JENCF, P. E., COMMON CARRIER APPROACH TO DIGITAL DATA TRANSMISSION: TERMINALS, TRANSMISSION EQUIPMENT AND FUTURE PLANS FOR THE COMPUTER UTILITY. (BELL TELEPHONE LABS, INC., HOLMOEL, NJ), GRUENEERGER, F., COMPUTERS AND COMMUNICATIONS--TOWARD A COMPUTER UTILITY, PRENTICE-HALL INC., ENGLEWDDD CLIFFS, NJ, 1568, (TK SIQ1.cG7, LC 60-16776), P 79-94, 1 REFS (ANNOTATION UNDER 1.2)

PARKHILL, DOUGLAS F., THE CHALLENGE OF THE COMPUTER UTILITY, ADDISON-WESLEY PUBLISHING CD., NEW YORK, 1966, (HF SS48.2.P27, LC 66-2424S), 207P, 45 REFS

A VARIETY OF MATERIAL IS PRESENTED IN THIS BODK, MUCH DF IT DUTDATED DUE TO THE FAST MOVING NATURE OF THE FIELD (EXAGGERATED BY THE TIME SCALE FOR BOOK PRODUCTION). AS AN INTRODUCTION TO EARLY COMPUTING. IT IS INTERESTING BUT NOT TOTALLY RELEVANT. BY 'COMPUTE UTILITY,' PARKHILL APPARENTLY MEANS ANY COMBINATION OF REMOTE BATCH OR INTERACTIVE COMPUTING SERVICE. PERHAPS THE TERM 'UTILITY' SEEMS ESPECIALLY OUT DF VOGUE NOW SINCE IT NEVER OID REALLY CATCH ON AND HAS FREQUENTLY DECH JOERN UTILETY' SEEMS ESPECIALLY OUT OF VOGUE NOW SINCE IT NEVER OID REALLY CATCH ON AND HAS PREQUENTLY DECH JOERN UTILITY' SEEMS ESPECIALLY OUT DF VOGUE NOW SINCE IT NEVER OID REALLY CATCH ON AND THE GENERAL CONCLUSION ARE NOT PARTICULARLY STRONG.

PHISTER, MONTGCMERY, JR., SYSTEM DESIGN DF DN-LINE SERVICE SYSTEMS, (SCIENTIFIC DATA SYSTEMS, SANTA MONICA, CA), GRUENBERGER, F., COMPUTERS AND COMMUNICATIONS--TOWARD A CDMPUTER UTILITY, PRENTICE-HALL INC., ENGLEWODD CLIFFS, NJ, 1968, (K SIOI.c67, LC 08-16776), P 135-149

SYSTEM REQUIREMENTS AND DESIGN CONSIDERATIONS OF SINGLE AND MULTI-COMPUTER COMPUTER NETWORKS SERVING MANY REMOTE RS ARE PRESENTED, THE PROPERTIES OF ON-LINE SERVICES AND THE SYSTEM REQUIREMENTS TO ACCOMMODATE THOSE SERVICES ARE USERS ARE PRESENTED. DISCUSSED AT LENGTH. (ALSO UNCER 3.0)

ROSE, GORDON A., COMPUTER GRAPHICS COMMUNICATION SYSTEMS. (NEW SOUTH WALES, UNIV. DF, KENSINGTON, (AUSTRALIA), OEPT, OF ELECTRONIC COMPUTATION). INFORMATICN PROCESSING 681 FROCEEDINGS DF IFIP CONGRESS 1968, VOLUME 2--HARDWARE, APPLICATIONS, (EDINOURGH, (SCOTLAND), AUGUST 5-10, 1968), NORTH-HOLLAND PUBLISHING CO., AMSTERDAM, (NETHERLANDS), 1969, IFIP CONGRESS PROCEEDINGS, (LC 65-24118), P 652-703, 20 REFS (ANNOTATION UNDER 1.2)

THOMPSON, JCHN P., THE WIRED CITY: COMMERCIAL SERVICES TO BE PROVIDED BY BROADBAND TELECOMMUNICATIONS SYSTEMS, UDMEDIAN, JEAN PA, THE WIRED CITY, COMMERCIAL SERVICES TO BE PROVIDED BY BRUADBAND TELECOMMUNICATIONS SYSTEMS, (LITTLE (ARTHUR 0,) ING., CAMBRIGGE, MA), WINKLER, STANLEY, COMPUTER COMMUNICATIONS: IMPACTS AND IMPLEMENTATION, THE FIRST INTERNATIONAL CONFERENCE ON COMPUTER COMMUNICATION, (WASHINGTON, OC, OCTOBER 24-26, 1972), INTERNATIONAL CONFERENCES ON COMPUTER COMMUNICATION, 1972, ICCC 72-CHO-65C-BC, NSF GJ-33239, P 425-428 (ANNOTATION UNDER 5-21

VAN VLECK, THOMAS H., COMPUTER LANGUAGES FOR THE COMPUTER UTILITY, (MASSACHUSETTS INST. DF TECH., CAMBRIDGE), INTERDISCIPLINARY CONFERENCE ON MULTIPLE ACCESS COMPUTER NETWORKS, (AUSTIN, TX, APRIL 20-22, 1970). APR 70, S-2-1--S-2-5, 8 RES 5 (ANNOTATION UNDER 3-4-9)

WITHINGTON, FREDERIC G., THE MARKET FOR A COMPUTER UTILITY INDUSTRY, (LITTLE (ARTHUR 0.) INC., CAMBRIDGE, MA), GRUENBERGER, F., COMPUTERS AND COMMUNICATIONS--TOWARD A COMPUTER UTILITY, PRENTICE-HALL INC., ENGLEMODO CLIFFS, NJ, 1968, (TK 5101.C67, LC 68-16776), P 67-77 (ANNDTATION UNDER 5.2)

A. 9 OTHER

BENJAMIN, RICHARD T., P. M. KARP, ARPA NETWORK EXPERIMENTATION USING EXISTING DATA MANAGEMENT SYSTEMS, MITRE CORP., WASHINGTON, DC, 21 JUN 71, MC WP-7809, 22P

4.5 DTHER

A PROGRAM OF EXPERIMENTATION USING EXISTING OATA MANAGEMENT SYSTEMS ON THE ARPA NETWORK IS SUMMARIZED, Work described is representative of planned experimentation and prototype development efforts performed in Conjunction with the mitre entry to the Arpa Network. THE

ERUCE, PAUL, D. HIGGINS, E. PEREZ, HERBERT J. STERNICK. NOREEN D. WELCH, A RECOMMENDED RESEARCH AND DEVELOPMENT PLAN FOR DATA EXCHANGE IN THE WORLD WIDE MILITARY COMMAND AND CONTROL SYSTEM, MITRE CORP., WASHINGTON, OC, B APR 71, MC WP-9710, AF F19628-71-C-0002, 42P

THE STATED DBJECTIVE OF THIS PLAN IS TO DEVELOP ALTERNATIVE SYSTEM CONCEPTS FOR IMPROVING THE WWHCCS (WORLO WIDE MILITARY COMMANG AND CONTROL SYSTEM) DATA EXCHANGE CAPABILITIES THROUGH THE USE OF DIRECT COMPUTER-TO-COMPUTER COMMUNICATIONS, FIVE TASK AREAS ARE DESCRIBED: (1) INTERCOMPUTER NETWORK; (2) DATA DISTPIBUTION; (3) DATA DESCRIPTION LANGUAGE; (4) MULTI-LEVEL SECURITY; AND (5) DN-LINE TECHNOLOGY STUDIES. THE PURPOSE OF EACH OF THE TASK AREAS IS EXPLAINED, AND SUMTASKS ARE IDENTIFIED AND DESCRIBED.

DAVIS, JAMES, MICROSECONDS AND MULTI-MONTHS: TURNARDUND TIME IN SDCIAL RESEARCH, (NATIONAL OPINION RESEARCH CENTER, NEW

NETWORKS AND DISCIPLINES. PROCEEDINGS OF THE EDUCON FALL CONFERENCE, (ANN ARBOR, MI, OCTOBER 11-13, 1973), 1973, P 49-52

THE NATIONAL OPINION RESEARCH CENTER (NORC) IS AN ACADEMIC, NON-PROFIT, NATIONAL SURVEY DRGANIZATION. THERE ARE THREE PROBLEM AREAS FOR THIS GROUP AND OTHERS LIKE IT INCLUDING LOW USAGE OF COATA, DELAYEO USAGE OF CATA, AND THE USAGE OF EAD CATA. THIS PAPER DESCRIBES HOW NETWORKING MAY HELP SOLVE THE PROBLEMS OF THESE SURVEY HOUSES.

Y, LAWRENCE H., THE FUTURE OF COMPUTER AND COMMUNICATIONS SERVICES. (BELL CANADA, MONTREAL). AFIPS confemence proceedings. Volume 42, 1973, National Computer Conference and exposition, (new york, ny, june 4-8, 1973), Afips press, Montvale, nj. 1973, Afips conference proceedings, (LC 55-4470); P 723-734, 19 Refs (ANNOTATION UNDER 1.6)

KARP, P. M., EXPERIMENTATION ON THE ARPA COMPUTER NETWORK, MITRE CORP., WASHINGTON, OC. 29 JAN 71, MC WP-7447, AF F19628-71-C-0002, 41P, 11 REFS

A FROGRAM OF EXPERIMENTATION ON THE ARPA NETWORK IS GEING CONDUCTED BY MITRE. THE OBJECTIVE OF THIS PROGRAM IS TO DEMONSTRATE A RESEARCH CAPABILITY SUITABLE TO DETAIN SFONSORED RESEARCH PROJECTS IN COMPUTER NETWORKING. THIS OCCUMENT PRESENTS PLANS FOR CONDUCTING INITIAL EXPERIMENTS IN TECHNIQUES OF DATA SHARING AND DATA DISTRIBUTION.

VIGHT, JOHN R., A CASE STUDY: AIRLINES RESERVATIONS SYSTEMS. (INTERNATIONAL BUSINESS MACHINES CORP., WHITE PLAINS, NY) PROCEEDINGS OF THE IEEE, VOL 60, ISSUE 11, NOV 72, P 1423-1431 KN IGHT.

THE HISTORY OF AIRLINE RESERVATIONS SYSTEMS FROM THE 1950'S TO THE PRESENT IS TRACED. THE SYSTEM STRUCTURE IS BROKEN INTO THREE SECTIONS, AGENT-TERMINAL AREA, COMMUNICATIONS FACILITIES AND THE CENTRAL COMPLEX. FACTS LEARNED FROM OVER TWENTY SYSTEMS DEVELOPED TO DATE ARE DISCUSSED.

LABONTE, RDBERT C., DEVELDPING A WIRED NATION--A GENERAL PURPOSE DIGITAL COMMUNICATIONS SYSTEM FOR DPERATION ON A CONVENTICAAL CATV SYSTEM, (MITRE CORP., BEOFORG, MA), COMPCON 73 - SEVENTH ANNUAL IEEE COMPUTER SOCIETY INTERNATIONAL CONFERENCE, DIGEST DF PAPERS, *COMPUTING NETWORKS FROM MINIS THROUGH MAXIS -- ARE THEY FOR REAL?*, (SAN FRANCISCO+ CA, FEBRUARY 27-28, MARCH I, 1973), INSTITUTE DF ELECTRICAL AND ELECTRONIC ENGINERES INC., NEW YORK, 1973, (IC 60-1628), P 85-88

MITRIX. A DIGITAL CABLE COMMUNICATIONS SYTSTEM HAS BEEN DPERATING FOR A YEAR AT MITRE'S BEOFORD SITE. THE SYSTEM DEMONSTRATES THAT CATY CHANNELS CAN PROVIDE DTHER COMMUNICATION CAPABILITIES THAN TELEVISION AND INTERACTIVE TELEVISION. CAPABILITIES OF THIS SYSTEM ARE DESCRIBED AND POSSIBILITIES OF THIS SYSTEM IN THE FUTURE ARE OISCUSSES. (ALSO UNDER 3:2:1)

NTGOMERY, K. LEON. CURRENT TRENDS IN MACHINE-READABLE DATA BASES. (PITTSBURGH. UNIV. DF. PA. INTERDISCIPLINARY Doctoral program in information science). Networks and disciplines. Proceedings of The Educom Fall Conference. (ann Arbor. MI. Doctober 11-13, 1973). 1973. P BI-87. 12 REFS

THIS PAPER COVERS FOUR AREAS INCLUCING A REVIEW OF NATIONALLY AVAILABLE CATA BASES, GROWTH TRENDS IN MACHINE-REACABLE DATA BASES, PROBLEM AREAS IN MACHINE-REACABLE CATA BASES, AND DATA BASE MANAGEMENT. IT REVIEWS THE TRENDS IN CATA BASE MANAGEMENT AND SUMMARIZES THE ROLES OF THE CATA BASES IN INFORMATION NETWORKS IN GENERAL, DATA

PETERSEN. GERALD A., AFOS: A PROGRAM FOR NATIONAL WEATHER SERVICE FIELD AUTOMATION, (NATIONAL DEANIC AND ATMOSPHERIC ADMINISTRATION, SLEVER SPRING, MD, MINISTRATION, SLEVER SPRING, MD, MINISTRATION, SLEVER SPRING, MD, MINISTRATION, (WASHINGTON, OC, OCTOBER 24-26, 1972), INTERNATIONAL CONFERENCES ON COMPUTER COMMUNICATION, 1972, ICCC 72-CHD-69C-BC, NSF GJ-33239, P 127-131

THE DESIGN OF A NETWORK FOR USE IN AUTOMATING THE FIELD DPERATIONS OF THE NATIONAL WEATHER SERVICE IS DESCRIBED.

PROPOSAL FOR CONTINUATION OF RESEARCH ON NATURAL COMMUNICATION WITH COMPUTERS, BOLT, BERANEK AND NEWMAN INC., CAMBRIDGE, Ma, May 72, BBN P72-CSC-12, 60P

NET WORK OF TENEX SYSTEMS (POP 10'S WITH PAGING HARDWARE AND SOFTWARE) INTERCONNECTED THROUGH FRONT END POP-11'S A REINDAR DE TERRA SISTEMS (DUP ID'S MITH PAGING HARDWARE AND DET MARE) INTERCUNNECTED INTERDAM FRONT END PDF-11'S IS DESCHEDED. THE FRONT END HANDLES ALL COMMUNICATIONS TO ITS HODT SYNER INCLUING THE CONTROL DE PERTPERALS-READERS PRINTERS, OISKS, AND TAPES. IN ADDITION, THE NETWORK CONTROL PROBRAM FOR NETWORK ACCESS IS IN THE FRONT END. IT WILL BE INTERESTING TO SEE HOW THIS WORKS DUT SINCE THE CONCEPTS MAY BE APPLICABLE TO A WIDE VARIETY DE NETWORK AND COULD CONTRIBUTE TO REQUCING THE LOAD OF NETWORK CONTROL ON THE HOST COMPUTER. THE APPLICATION TO A NETWORK HAVING METEROGENEOUS HOSTS IS MENTIONED AS A FUTURE POSSIBILITY.

ROWELL, HARRY B., JR., PROGRAM-SHARING NETWORKS.(PRESENTED AT. NETWORKS IN HIGHER EDUCATION: PROCEEDINGS OF THE EDUCOM CDUNCIL MEETING SEMINAR, ATLANTA, GA, DCTDEER 15, 1970, (CARNEGIE-MELLDN UNIV., PITTSBURGH, PA), BEHAVIDRAL SCIENCE, VOL 16, ISSUE S, SEP 71, P 497-499

THE AUTHOR DISCUSSES A SIGNIFICANT PROBLEM IN THE TRANSFER OF SOFTWARE. I.E., LACK OF STANDARDS FOR PROGRAM DOCUMENTATION.

VOLK, JOHN L., INTERACTIVE TELEVISION EXPERIMENT IN RESTON, VIRGINIA. (MITRE CDRP., MCLEAN, VA), COMPCON 73 - SEVENTH ANNUAL IEEE COMPUTER SOCIETY INTERNATIONAL COMFERENCE. DIGEST OF PAPERS. °COMPUTING NETWORKS FROM MINIS THROUGH MAXIS -- ARE THEY FOR REAL?', (SAN FRANCISCO, CA, FEBRUARY 27-28, MARCH 1, 1973), INSTITUTE OF ELECTRICAL ANC ELECTRONIC ENGINEERS INC., NEW YORK, 1973, (LC 68-1628), P 81-84

AN INTERACTIVE TELEVISION SYSTEM MAS BEEN DPERATING FOR TWO YEARS IN THE INDIVIDUAL HOMES OF RESTON, VIRGINIA, VARIOUS SERVICES ARE PROVIDED: INSTRUCTIONAL (CAI), ENTERTAINING (GAMES) AND PUBLIC INTEREST (EDITORIALS, HEALTH CARE). THE DEVELOPMENT OF THIS SYSTEM AND A DESCRIPTION OF THE CONFIGURATION AND SERVICES PROVIDED ARE GIVEN IN THIS PAPER. (ALSO UNDER 3.2.1)

ZAKS, RCONAY, A PROCESSOR NETWORK FOR URBAN TRAFFIC CONTROL, (COPPE-FEDERAL UNIV,, RID DE JANEIRO, (BRAZIL), SINGER

KKS. RCONAY. A PROCESSOR NETWORK FOR URBAN TRAFFIC CONTROL. (COPPEREDERAL UNIV., RID DE JANEIRO. (BRAZIL), SINGER CO., SUNNYALE, CA. TRAFFICI INFORMATION SYSTEMS). COMPCON 73 - SEVENTH ANNUAL IEEE COMPUTER SOCIETY INTERNATIONAL CONFERENCE, DIGEST OF PAPERS. *COMPUTING NETWORKS FROM MINIS THROUGH MAXIS - ARE THEY FOR REALZ'. (SAN FRANCISCO CA. FEBRUARY 27-28. MARCH 1. 1973), INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS INC., NEW YORK, 1973, (LC 68-1628), P 215-218. 2 REFS

5. MANAGEMENT

S.O GENERAL

- A TRANS-CANADA COMPUTER COMMUNICATIONS NETWORK. PHASE I OF A MAJOR PROGRAM ON COMPUTERS, SCIENCE COUNCIL OF CANADA, AUG 71. SCC R-13. SCC S522-1971-13, 41P (ANNOTATION UNDER 3-1-0)
- ARONDESKY, JULIUS, NETWORK MANAGEMENT, REPORT OF WORKSHOP S. (SOUTHERN METHODIST UNIV., DALLAS, TX), GREENBERGER, MARTIN, JULIUS ARONDESKY, JAMES L. MCKENNEY, WILLIAM F. MASSY, NETWORKS FOR RESEARCH AND EDUCATION: SHARING CCMPUTER AND INFORMATION RESOURCES NATIONNIDE. MIT PRESS, CAMBRIDGE, MA, 1973, P. 233-239
- THE NSF-SFONSOFED WORKSHOP ADDRESSED SPECIAL MANAGEMENT PROBLEMS IN ORGANIZING AND RUNNING A COMPUTER NETWORK INVOLVING DIFFERENT INSTITUTIONS AND DECENTRALIZED USERS WITH SEPARATE AFFILIATIONS AND DISSIMILAR INTERESTS. THESE INCLUDE: EDUCATION AND TRAINING; FINANCING; INITIAL PARTICIPANTS; CATALOGING DR RESOURCES TO BE SHARED ON NETWORKS; AND REGIONAL VS, NATIONAL NETWORKS.
- BERNARD, DAN, INTERCOMPUTER NETWORKS: AN OVERVIEW AND A BIBLIOGRAPHY, PENNSYLVANIA, UNIV, OF, PHILAOELPHIA, WHARTON School, May 73, orr Nodola-67-A-0216-0007. (AD-769 232), 250P (ANNOTATION UNDER 1.3)
- BOLT, RICHARD H., THE CHALLENGE OF MANAGING COMPUTER NETWORKS. (BOLT, BERANEK AND NEWMAN INC., CAMBRIDGE, MA), GREENBERGER, MARTIN, JULIUS ARDNOFSKY, JAMES L. MCKENNEY, WILLIAM F. MASSY, NETWORKS FOR RESEARCH AND EDUCATION: SHARING COMPUTER AND INFORMATION RESOURCES NATIONNIDG. MIT PRESS. CAMBRIDGE. MA, 1973, P 299-310

THE AUTHOR DIVIDES THE UNIVERSE OF NETWORKS INTO THREE FUNCTIONAL CATEGORIES: TASK CENTERED NETWORKS; SIGNAL TRANSPORT NETWORKS; AND COMMUNICATION FACILITATION NETWORKS. HE DESCRIBES EACH CATEGORY IN DETAIL EMPHASIZING THE RCLE AND DBJECTIVES OF THE MANAGER IN EACH SITUATION. (ALSO UNDER 1.3)

- BRODKS, FRECERICK P., JR., JAMES K. FERRELL. THOMAS M. GALLIE, DRGANIZATIONAL, FINANCIAL, AND POLITICAL ASPECTS OF A THREE-UNIVERSITY COMPUTING CENTER. (NORTH CAROLINA. UNIV. OF, CHAPEL HILL, DEPT. OF COMPUTER AND INFORMATION SCIENCE, NORTH CAROLINA, STATE UNIV. OF, RALEIGH. DEPT. OF CHEMICAL ENGINEERING, NATIONAL SCIENCE FOUNDATION, WASHINGTON, DC, OFFICE OF COMPUTING ACTIVITIES). INFORMATION PROCESSING 68; PROCEEDINGS OF IFIP CONGRESS 1968. VOLUME 2--HAROWARE, APPLICATIONS, (EDINBURGH, (SCOTLAND), AUGUST 5-10, 1968). NORTH-HOLLAND PUBLISHING CD., AMSTERDAM, (NETHERLANDS), 1969, IFIP CONGRESS PROCEEDINGS, (LC 65-24118), P 923-927
- SOME OF THE PRACTICAL CONSIDERATIONS THAT HAVE LED TO THE STABLE, SUCCESSFUL OPERATION OF THE TRIANGLE UNIVERSITIES COMPUTATION CENTER ARE DISCUSSED IN THIS ARTICLE. SOME OF THE INTERESTING DECISIONS INCLUDE THE SELECTION OF A NEUTRAL LOCATION, OESPITE THE ADDITIONAL SETUP COSTS INVOLVED, AND THE METHOD OF JOINT MANAGEMENT OF THE CENTER. ALSO, COSTS ARE SPLIT THREE WAYS AMONG THE PRINCIPAL PARTICIPANTS INDEPENDENT OF USE. ECONOMY OF, SCALE IS EXHIBITED OVER THE USE OF SMALLER, SEPARATE CAMPUS FACILITIES ALLONG WITH OTHER BENEFITS SUCH AS THE ABILITY TO OFFER RESEARCHERS MORE POWERFUL COMPUTING SUPPORT THAN WOULD OTHERWISE BE POSSIBLE.
- CHOU, #USHD#, PLANNING AND DESIGN OF DATA COMMUNICATIONS NETWORKS. (NETWORK ANALYSIS CORP., GLEN COVE. NY). AFIPS CONFERENCE PROCEEDINGS. VOLUME 43, 1974. NATIONAL COMPUTER CONFERENCE PROCEEDINGS. VOLUME 43, 1974. AFIPS PRESS. MONTVALE. NJ. 1974. AFIPS CONFERENCE PROCEEDINGS. (LC SS-44701), P S53-S59. 6 REFS

CHOU CALLS FOR A TWO FOLD APPROACH TO IMPROVE PLANNING AND DESIGN OF COMMUNICATIONS NETWORKS. NETWORK MANAGERS SHOULD HAVE ABILITY BOTH IN THE TECHNICAL AND MANAGERIAL SPHERES. USENS SHOULD BE EDUCATED CONCERNING THE COST/PERFORMANCE RELATICHSHIP IN ORDER TO SET REASONABLE PERFORMANCE REDUIREMENTS. HE ALSC EXPLORES PERFORMANCE CRITERIA, NETWORK STRUCTURES, DESIGN TOOLS AND STRATEGIES, AND OTHER COMMUNICATIONS RELATED TOPICS. HIS TEXT IS MEANT AS AN OVERVIEW OF STATE-OF-THE-ART TECHNIQUES AND APPROACHES. (ALSO UNDER 3.2.2.)

COTTON, IRA W., NETWORK MANAGEMENT SURVEY SUMMARY, (PRESENTED AT THE, SEVENTH HAWAII INTERNATIONAL CONFERENCE ON SYSTEM SCIENCES, HONDLULU, JANUARY 8-ID, 1974), NATIONAL BUREAU OF STANDARDS, WASHINGTON, OC, INST, FOR COMPUTER SCIENCES AND TECHNICICSY, JAN 74, NSF EC-40904, NSF GJ-33220, NSF AG-350, 4P

TABULAR SUMMARIES OF THE RESULTS OF A MANAGERIAL SURVEY ARE PRESENTED FOR FIVE DIFFERENT NETWORKS. THE NETWORKS COVERED ARE ARPA, TUCC, MERIT, DREGON STATE, AND TYMNET, THERE'S A LOT OF INFORMATION CRAMMED INTO FOUR PAGES HERE.

LENNIS, JACK 8., A POSITION PAPER ON COMPUTING AND COMMUNICATIONS.(PRESENTED AT, ACM SYMPOSIUM ON OPERATING SYSTEM PRINCIPLES, GATLINBURG, TW, OCTOBER 1-4, 1967), (MASSACHUSETTS INST. OF TECH., CAMBRIDGE, PROJECT MAC), CCMMUNICATIONS OF THE ACM, VOL 11, ISSUE 5, MAY 68, P 370-377, 12 REFS

THE PROBLEMS AND PROPOSED SOLUTIONS ASSOCIATED WITH MANY INFORMATION SERVICE SYSTEMS SHARING A COMMON COMPUTER INSTALLATION ARE EXPLORED. THE DEVELOPMENT OF GENERAL PURPOSE HAROWARE AND OPERATING SYSTEMS SUITABLE FOR INFORMATION SERVICE SYSTEMS DEVELOPMENT IS PREDICTED AND MULTICS IS GIVEN AS PROOF OF THE FEASIBILITY. TO PROTECT COMPETITION AND GUARANTEE THAT NO SERVICE SYSTEM HAS AN UNFAIR ADVANTAGE. IT IS ADVISED THAT RESPONSIBILITY FOR TASKS BE WELL SPECIFIED TC COMPUTER MANUFACTURER, COMMON CARRIER, INFORMATION SYSTEMS DESIGNER, INFORMATION SYSTEMS MANAGER, AND INSTALLATION DOPERATOR, DENNIS PREDICTS THAT COMPUTER NETWORKS WILL DEVELOP AS DISTRIBUTED SYSTEMS RATHER THAN THE PRESENT (1968) CENTRALIZED SYSTEMS.

OUNN, 0. A., THE ECONDMICS OF UNIVERSITY COMPUTER NETWORKING, (STANFORD, UNIV. OF, CA), FACTS AND FUTURES, WHAT'S HAPPENING NOW IN COMPUTING FOR HIGHER EOUCATION. PROCEEDINGS OF THE EDUCOM FALL CONFERENCE, (PRINCETON, NJ, OCTOBER 9-11, 1973), INTERUNIVERSITY COMMUNICATIONS COUNCIL INC. (EDUCOM), PRINCETON, NJ, 1974, (LC 74-79222), P 68-72, 3 REFS

THE AUTHOR SUGGESTS THAT UNIVERSITY COMPUTING CENTERS AND ADMINISTRATIONS ARE CONFRONTED WITH MEETING COMPETITION AS ARE BUSINESS FIRMS. HE DESCRIBES BRIEFLY THE ECONOMICS INVOLVED WITH JOINING A NETWORK AND THE ALTERNATIVES COMPUTING CENTERS HAVE TC NETWORKING. (ALSO UNDER 5.3)

- EICK, HAPRY A., SEYMOUR J. WOLFSON, KARL L. ZINN, OEVELOPMENT OF APPLICATIONS FOR THE MERIT COMPUTING NETWORK, MICHIGAN, STATE UNIV. OF, EAST LANSING, WAYNE, STATE UNIV. OF, DETROIT, MI, MICHIGAN, UNIV. OF, ANN ARBOR, 2 JUN 72, 6P, 3 REFS TC APPEAR IN ACM SICCUE BULLETIN ON COMPUTER USES IN EQUCATION (JUN 72)/ (ANNOTATION UNDER 4.0)
- EMERY, JAMES C., PROBLEMS AND PROMISES OF REGIONAL COMPUTER SHARING, (PENNSYLVANIA, UNIV, OF, PHILAOELPHIA), GREENBERGER, MAATIN, JULIUS ARDNOFSKY, JAMES L. MCKENNEY, WILLIAM F. MASSY, NETWORKS FOR RESEARCH AND EOUCATION: SHARING COMPUTER AND INFORMATICN RESOURCES NATIONWIDE, MIT PRESS, CAMBRIOGE, MA, 1973, P 189-198 (ANNOTATION UNDER 3.1.2)
- FEENEY, GEDFGE J., THE FUTURE OF COMPUTER UTILITIES, (GENERAL ELECTRIC CO., BETMESDA, MD), WINKLER, STANLEY, COMPUTER COMMUNICATIONS: IMPACTS AND IMPLEMENTATION, THE FIRST INTERNATIONAL CONFERENCE ON COMPUTER COMMUNICATION, (WASHINGTON, OC. OCTOBER 24-26, 1972), INTERNATIONAL CONFERENCES ON COMPUTER COMMUNICATION, 1972, ICCC 72-CHC-090-BG, NSF GJ-33239, P 237-239 (ANNOTATION UNCER 4.3)

FIFE, DENNIS WH, NETWORK MANAGEMENT FOR EXPANDED RESOURCE SHARING, (NATIONAL BUREAU OF STANDAROS, WASHINGTON, OC, INST, FOR COMPUTER SCIENCES AND TECHNOLOGY), FACTS AND FUTURES, WHAT'S HAPPENING NOW IN COMPUTING FOR FIGHER EDUCATION, PROCEEDINGS OF THE EDUCOM FALL CONFERENCE, (PRINCETON, NJ, OCTOBER 9-11, 1973), INTERUNIVERSITY COMMUNICATIONS COUNCIL INC. (EDUCOM, PRINCETON, NJ, 1974, (LC 74-79723), P 55-61, 7 REFS

THE AUTHOR DESCRIEES FIVE SEQUENTIAL STAGES THROUGH WHICH NETWORK MANAGEMENT PASSES AND THEN DESCRIBES THE DEVELOPMENTS EXPECTED AT EACH OF THESE MANAGEMENT STAGES. THE FIVE STAGES ARE: MUTUAL SERVICE ACCESS OR THE ESTABLISHMENT OF PDESIBLE INDIVIDUAL ACCESS TO MULTIPLE REMOTE COMPUTERS; MUTUAL SUPPORT OR THE PROVISION OF FORMAL ASSISTANCE BY THE CODEFATING DRGANIZATION; DEPENTIONS COOPINATION OR THE ARRANGEMENT OF OPERATIONS AND MANAGEMENT CRITERIA BY AGREEMENT OF THE DRGANIZATION; SERVICE ALIGNMENT OR THE MUTUAL RECORVITION OF RESOURCES PROVIDED BY EACH AND LEGALLY APORTION OF OVERALL MARKET; AND THE FINAL STAGE, JCINT RESOURCE OWNERSHIP, WHICH IS THE MUTUAL INVESTMENT OF CAPITAL AND PERSONNEL TO DEVELOP A NEW COMPUTING RESOURCE,

FIFE, DENNIS #.. RESEARCH CONSIDERATIONS IN COMPUTER NETWORKING TO EXPAND RESOURCE SHARING, NATIONAL BUREAU OF

S.D GENERAL

STANDARDS, WASHINGTON, OC, SYSTEMS AND SDFTWARE OIV., JUN 74, NBS TN-BDI, NSF AG-35D, (LC 74-60DDB9), 24P, 21 REFS

COMPUTER NETWORKING TECHNOLOGY IS ADEQUATELY DEVELORED NOW TO SUPPORT RESEARCH AND EXRERIMENTATION TO EXPANO RESOURCE SHARING. WHETHER PROGRESS WILL BE MADE DEPENDS URDN ORGANIZATIDHAL INITIATIVE ANDNG MULTIPLE INSTITUTIONS COMBINING PERSCANEL AND CARITAL SD AS TO EFFECTIVELY ADDRESS THE MAJOR ISSUES IN MANAGEMENT APRRDACH, SUPRORT, AND SOFTWARE DESIGN THAT LIMIT THE FEASIBLE INTERGREMENDENCE OF COMPUTING OPERATIONS. THE ORGANIZATIONAL REOUTREMENTS ARE PARTIALLY REVEALED BY EXAMINING PROGRAMS SHARING OR PROGRAM SHARING THAT HAVE BEEN INTRODUCED IN THE RAST. FIVE STAGES ARE IDENTIFIED, RANGING FROM SIMPLY ESTABLISHING MULTIPLE SERVICE ASCESS TO THE ADVANCED STAGE WHERE MULTIRLE INSTITUTIONS DRGANIZE FOR JOINT OEVELOPMENT OF NEW RESOURCES. A PRELIMINARY EVALUATION FRAMEWORK FOR NEW MANAGEMENT ARRANGEMENTS RESULTS WHEN THESE STAGES ARE MAPORE CAGINST THE FOUR FUNCTIONAL LEVELS INTRODUCE IN ORDER MANAGEMENTS RESULTS WHEN THESE STAGES ARE MAPORE CAGINST THE FOUR FUNCTIONAL LEVELS INTRODUCED IN THE RAST. FIVE STAGES FOR RESULTS WHEN THESE STAGES ARE MAPORE CAGINST THE FOUR FUNCTIONAL LEVELS INTRODUCED IN THE MENDER MANAGEMENTS RESULTS WHEN THESE STAGES ARE MAPORE CAGINST THE FOUR FUNCTIONAL LEVELS INTRODUCED ADVANCED STAGE WHERE MULTIRLE INSTITUTIONS DRGANIZE FOR JOINT OEVELOPMENT OF NEW RESOURCES. A PRELIMINARY EVALUATION FRAMEWERF FOR NEW MANAGEMENT ARRANGEMENTS RESULTS WHEN THESE STAGES ARE MAPORE CAGINST THE FOUR FUNCTIONAL LEVELS INTRODUCED ADVANCED ADVANCED STAGE WHERE MULTIRLE INSTUDIES FOR NETWORK ANAGEMENT OF NEW RESOURCES. AD RELIMINARY EVALUATION FRAMEWERF FOR NEW MANAGEMENTS RESULTS WHEN THESE STAGES ARE MAPORE CAGINST THE FOUR FUNCTIONAL LEVELS INTRODUCED ADVANCED ADVANCED ADVANCED STAGE STAGES FOR NETWORS FOR NETWORK ANALOGEMENTS. RESULTS WHEN THESE STAGES ARE MAPORE CAGINST THE FOUR FUNCTIONAL LEVELS INTRODUCED ADVANCED ADVAN

- FLODD, MERRILL M., COMMERCIAL INFORMATION PROCESSING NETWORKS--PROSPECTS AND PROBLEMS IN PERSPECTIVE, HUXLEY, JUDITH, THE OUTLOOK FOR TECHNOLDGICAL CHANGE AND EMPLOYMENT, APPENDIX VOLUME I. TECHNOLOGY AND THE AMERICAN ECONOMY, AND ECONOMIC PROGRESS. THE REPORT OF THE COMMISSION, FEB 66, (HC 106.5.45682), R I-233--I-252 (ANNOTATION UNDER 1.0)
- GILLESPIE, ROBERT, UNIVERSITY RELATIONS WITH NETWORKS: FDRCING FUNCTIONS AND FDRCES, (WASHINGTON, UNIV, DF, SEATTLE), GREENBERGER, MARTIN, JULIUS ARDNDFSKY, JAMES L. MCKENNEY, WILLIAM F. MASSY, NETWORKS FOR RESEARCH AND EDUCATION: SHARING COMPUTER AND INFORMATICN RESDURCES NATIONWIDE, MIT RRESS, CAMBRIDGE, MA, 1973, P 240-244 (ANNOTATION UNDER 3:1.0)
- FEATH, FRANK R., FACTORS FOR EVALUATION OF INTEGRATED ON-LINE INFORMATION SYSTEMS. (CARRIER CORP., SYRACUSE, NY), GRUENBERGER, F., COMPUTERS AND COMMUNICATIONS--TOWARD A COMPUTER UTILITY, PRENTICE-HALL INC., ENGLEWOOD CLIFFS, NJ, 1968. (TK 5101.667. LC 68-16776), R 151-172

THIS PAPER DISCUSSES THE FACTORS THAT INFLUENCE MANAGEMENT'S WILLINGNESS OR RELUCTANCE TO PLACE TRUST IN A COMBUTER UTILITY. FIRST THE GENERAL CHARACTERISTICS OF A COMPUTER UTILITY ARE DISCUSSED AND THE NETWORK AT CARRIER COMPORATION IS DESCRIBED. THEN SOME INTERESTING PLUS AND MINUS FACTORS REPTAINING TO CORPORATE ACCEPTANCE OF COMPUTER UTILITIES ARE DESCRIBED.

HOPEWELL, LYNN, MANAGEMENT PLANNING IN THE DATA COMMUNICATIGN ENVIRONMENT, (NETWORK ANALYSIS CORR., GLEN COVE, NY), AFIPS CONFERENCE PROCEEDINGS, VOLUME 43, 1974, NATIONAL COMPUTER CONFEMENCE, (CHICAGO, IL, MAY 6-ID, 1974), AFIRS PRESS, MONTVALE, NJ, 1974, AFIPS CONFERENCE PROCEEDINGS, (LC SS-44701), P 561-564, 6 REFS

THE AUTHOR PRESENTS A CONCEPTUAL FRAMEWORK FOR DATA COMMUNICATIONS MANAGEMENT PLANNING. DVERALL PLANNING IS SUBDIVIDED INTD THREE CATEGORIES. THE DATA COMMUNICATIONS PROCESS DEALS WITH THE RELATIONSHIP BETWEEN TODLS. THE USER AND OTHER SYSTEM PROCESSES. THE PLANNING PROCESS DEALS WITH GOALS. CONSTRAINTS, TECHNOLOGY AND UNCERTAINTY IN TERMS OF SHORT, MEDIUM AND LONG FANGE TIME SPANS. ORGANIZATIONAL CONSIDERATIONS ENCOMRASS THE INTERDEPENDENT RELATIONSHIP OF TECHNOLOGY AND THE DRGANIZATION. IN HIS SUMMARY HOPEWELL ADVISES THAT THE PLANNING PROCESS INCLUDE THE ORERATING MANAGERS RATHER THAN STRICTLY AN AUTCNCMDUS SPECIAL STAFF.

JENNINGS, MICHAEL A., COMPUTER SERVICES IN THE OREGON DEPARTMENT OF HIGHER EDUCATION, (DREGON DEPT. OF HIGHER EDUCATION).

ECUCATION, FACTS AND FUTURES. WHAT*S FAPPENING NOW IN COMBUTING FOR FIGHER EDUCATION, RROCEEDINGS OF THE EDUCOM FALL CONFERENCE, (PRINCETCN, NJ, DCTDBER 9-11, 1973), INTERUNIVERSITY COMMUNICATIONS CDUNCIL INC. (EDUCOM), PRINCETON, NJ, 1974, (LC 74-79522), P 83-99 (ANNOTATION UNDER 3.1.0)

KUD, FRANKLIN F., POLITICAL AND ECONDMIC ISSUES FOR INTERNETWORK CONNECTIONS. (HAWAII, UNIV. DF, HONOLULU, ALDHA SYSTEM).

THE SECCAD INTERNATIONAL CONFERENCE DN COMPUTER COMMUNICATION. CDMPUTER COMMUNICATION TDDAY AND UP TD 1985, (STOCKHOLM, (SWEDEN), AUGUST 12-14, 1974), INTERNATIONAL CDUNCIL DF ICCC, 1974, P 389-391, B REFS

SIX PROBLEM AREAS FOR COMPUTER INTERCONNECTION ARE BRIEFLY ADDRESSED: AGREEMENTS BETWEEN NETWORKS, STANDARDS, COMMON CARRIERS, ACCOUNTING, TARIFFS, AND PRIVACY AND SECURITY. THERE ARE ND SOLUTIONS PROVIDED, AS WAS THE AUTHOR'S STATED INTENT.

MAKIND, YASUQ, RERSPECTIVES DN GATA COMMUNICATION IN JAPAN, (NTT PUBLIC CORP., TDKYO, (JAPAN)), The Second International comference on computer communication. Computer Communication Today and up to 1985, (Stockholm, (Sweden), august 12-14, 1974), International council of Iccc, 1974, p 25-30

IN JAPAN, DATA COMMUNICATION INCLUDES BOTH DATA PROCESSING AND TELECOMMUNICATIONS. THE AUTHOR DETAILS DATA COMMUNICATION MANAGEMENT - PRESENT STATUS, RROGRESS AND PROBLEMS. HE CONCLUDES THAT A WORLOWIDE COMPUTER NETWORK WILL EMERGE WHICH WILL REDUIRE ADHERENCE TO INTERNATIONAL TECHNICAL STANDARDS. (ALSO UNDER 5.5)

MCATGOMERY, EDISON, AN INTERUNIVERSITY INFORMATION NETWORK, I. EDUCOM, (INTERUNIVERSITY COMMUNICATIONS CDUNCIL INC. (EDUCOM), PRINCETON, NJ), KENT, ALLEN, ORRIN E. TAULBEE, ELECTRONIC INFORMATION HANOLING, (RITTSBURGH, PA, OCTOBER 7-9, 1964), SPARTAN BOOKS INC., WASHINGTON, DC. 1965, KNOWLEDGE AVAILABILITY SYSTEMS SERIES, (LC 6S-173D6), R 261-268

THIS ARTICLE DESCRIBES THE HISTORY AND ORGANIZATION OF EDUCOM, THE INTERUNIVERSITY COMMUNICATIONS COUNCIL. THE TASK FORCES, DNE DF WHICH IS ON INFORMATION NETWORKS, ARE ALSO BRIEFLY DESCRIBED.

MODRE, K. ROGER, DR., MANGEMENT STRATEGIES FOR AOP NETWORKING, ARMY COMPUTER SYSTEMS COMMANO, FORT BELVOIR, VA, 1974, ACSC AT-74-D2, 170P, IS9 REFS

THE ABSTRACT TO THIS REPORT SUGGESTS THAT THE REPORT *FOCUSES UPON LONG RANGE ISSUES RATHER THAN SMORT RANGE ISSUES IN PLANNING FOR AOP IN THE ARMY.* IT IS TRUE THAT LONG RANGE ISSUES ARE DISCUSSED. BUT THE RESULTS ARE PRESENTED IN GENERAL FORM SO AS TO BE APPLICABLE TO ANY NETWORKING WNOETRAKING. THE REPORT IS AN EXCELLENT AND DETAILED DISCUSSION OF ECONOMIC AND MANAGERIAL ISSUES IN COMPUTER NETWORKING. AS THE AUTHOR SO APILY RECOGNIZES, THERE ARE NO TECHNICAL SCLUTICNS FOR MANAGERIAL PROBLEMS, BUT THERE MAY BE MANAGERIAL SDLUTIONS TO TECHNICAL PROBLEMS.

NEUMANN, A. J., REVIEW OF NETWORK MANAGEMENT PROBLEMS AND ISSUES, NATIONAL BUREAU OF STANDAROS, WASHINGTON, OC, SYSTEMS DEVELOPMENT DIV., OCT 73, NBS TN-795, NSF AG-350, 77P, 26 REFS

IN ORDER TO SURVEY THE RROBLEMS FACING DEVELOPMENT DF NETWORK MANAGEMENT, USER REDUIREMENTS AND SYSTEM REQUIREMENTS ARE OUTLINED IN A OUALITATIVE MANNER. EXAMPLES OF POLITICAL, ECONDMIC AND LEGAL CONSTRAINTS ARE SUMMARIZED, SUCH AS THE ECONDMIC IMPACT DF EXTENDED NETWDRKS ON REGIONAL AND LOCAL COMPUTING ACTIVITIES. CRITICAL ISSUES FOR NETWORKING MANAGEMENT, AND DTHER AREAS OF SIGNIFICANT MANAGEMENT CONCERN ARE OUTLINED. ORGANIZATIONAL ALTERNATIVES ARE CONCEIVED IN TERMS DF FOUR LAYER ORGANIZATION MODEL. CONCLUSIONS ORAL WITH CONTINUING, FROBLEM AREAS, THE NEED FOR A STRUCTURAL MODEL FOR NETWORK MANAGEMENT, CRITICAL EXRERIMENTS AND TASKS TO BE UNDERTAKEN TO FURTHER NETWORKING CAPABILITIES, AND A SUGGESTION TO ESTABLISH PLANNING TEAMS TO INITIATE SOME OF THE INITIAL STEPS REQUIRED FOR FURTHER NETWORKING GEVELDPMENT.

PARKER, LOUIS T., JR., THOMAS M. GALLIE, FREDERICK P. BROOKS, JR., JAMES K. FERRELL, INTRODUCING COMPUTING TO SMALLER COLLEGES AND UNIVERSITIES--A PROGRESS REPORT. (NORTH CARCLINA COMPUTER ORIENTATION PROJECT, RESEARCH TRIANGLE PARK, OUKE UNIV., OURHAM, NC, NDRTH CAROLINA, UNIV. OF, CHAPEL HILL, NDRTH CAROLINA, STATE UNIV. OF, RALEIGH), COMMUNICATIONS DF THE ACM. VOL I2. ISSUE 6, JUN 69, P 319-323, 6 REFS

ALTHOUGH SEVERAL YEARS OLD. THE ARTICLE PROVIDES A GODO DVERVIEW OF THE CIRCUMSTANCES SURROUNDING THE CONCEPTION OF TUCC, THE TRIANGLE UNIVERSITIES COMPUTATION CENTER, NORTH CAROLINA. EXPERIENCES GAINED AND LESSONS LEARNED IN THE EARLY YEARS OF TUCC OPERATION ARE DISCUSSED. (ALSD UNDER 5.7. 5.1)

STEFFERUO, EINAR, MANAGEMENT'S ROLE IN NETWORKING, (EINAR STEFFERUO AND ASSOCIATES, SANTA MONICA, CA), DATAMATION, VOL IB, ISSUE 4, APR 72, P 40-42

THIS VERY GCOO CONTRIBUTION TO THE NETWORKING LITERATURE IDENTIFIES CRUCIAL MANAGERIAL PROBLEMS FACED IN THE DEVELOPMENT AND OPERATION OF NETWORKS. A MAJOR POTENTIAL CONFLICT IS THAT BY USING SERVICES SUPPLIED THROUGH NETWORKS, CONTROL WITHIN THE USING ORGANIZATION MAY BE WEAKENED. THE NECESSARY MARKETPLACE ACTION AMONG PRDVIDERS/USERS OF SERVICE, SERVICE BROKERS, AND NETWORK OPERATORS IS OUTLINED. 5.0 GENERAL

- WAX, DAVID M., R. D. MORRISON, JR., NASIC: A REGIDNAL EXPERIMENT IN THE BRDKERAGE DF INFORMATION SERVICES, (NEW ENGLAND BCARD OF HIGHER ECUCATION), FACTS AND FUTURES. WHAT'S HARRENING NDW IN COMBUTING FOR HIGHER EDUCATION, PROCEEDINGS OF THE EDUCOM FALL CONFERENCE, (RRINGETON, NJ, OCTOBER 9-11, 1973), INTERUNIVERSITY COMMUNICATIONS COUNCIL INC. (EDUCOM), PRINCETON, NJ, 1974, (LC 74-79222), P 268-273 (ANNDTATION UNDER 4.1.5)
- WEEG, GERARD P., THE ROLE OF REGIONAL COMPUTER NETWORKS, (IDWA, UNIV. DF, IDWA CITY, COMPUTER CENTER), LEVIEN, ROGER E., COMPUTERS IN INSTRUCTION: THEIR FUTURE FOR HIGHER EDUCATION, (OCTOBER I-3, 1970), RAND CORP., SANTA MONICA, CA. JUL 7[, RC R-718-NSF-CCOM-RC, P SS-66, 6 REFS (ANNOTATION UNDER 1.1)
- WIJERS, H. J., SDME DRGANIZATIDNAL RROBLEMS DF THE INTRODUCTION DF DATA COMMUNICATION SYSTEMS, (NETHERLANDS POSTAL AND TELECOMMUNICATIONS SERVICES MEADOUARTERS, HAGUE), THE SECOND INTERNATIDNAL CONFERENCE ON COMPUTER COMMUNICATION. COMPUTER COMMUNICATION TODAY AND UP TO 1985, (STOCKHOLM, (SWEDEN), AUGUST 12-14, 1974), INTERNATIONAL COUNCIL OF ICCC, 1974, P 441-443, S REFS

THE CONCERN EXPRESSED BY THE AUTHOR IS THAT THE SERVICE SECTOR SHOULD BE MORE ENCOURAGED TO APPLY DATA COMMUNICATION TO FULFILL THEIR NEEDS. THE TITLE OF THE PAPER IS DECEPTIVE BECAUSE SOME ORGANIZATIONAL PROBLEMS ARE LISTED BUT NOT DEERLY CISCUSSED.

WYATT, JDE B., MANAGEMENT IN APRLICATIONS OF NETWORK ACCESS, (HARVARD UNIV., CAMBRIDGE, MA), 1975 IEEE INTERCON CONFERENCE RECORD, (NEW YORK, APRIL 8-1D, 1975), INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YORK, 1975, P 25-1-1-25-1-6, 4 REFS

THIS PAPER ADDRESSES MANAGEMENT CONSIDERATIONS TO BE FACED AS NETWORKS EVOLVE. THE TOPIC IS VIEWED FROM THREE PERSPECTIVES: SHOPPING FOR COMPUTER POWER, GAINING ACCESS TO SCARCE RESOURCES, AND DESIGNING NEW ARCHITECTURES FOR INFORMATICN SYSTEMS.

S.1 OPERATIONS

NSLDW, N. G., J. HANSCOTT, IMPLEMENTATION OF INTERNATIONAL OATA EXCHANGE NETWORKS, (BOAC, LONDON AIRPORT, (ENGLADD)) WINKLER, STANLEY, COMPUTER COMMUNICATIONS: IMPACTS AND IMPLEMENTATION. THE FIRST INTERNATIONAL CONFERENCE ON COMPUTER COMMUNICATION, (WASHINGTON, DC, OCTDBER 24-26, I972), INTERNATIONAL CONFERENCES ON COMRUTER COMMUNICATION, 1972, ICCC 72-CHD-69D-66, NSF 6J-33239, P 18I-184 (ANNOTATION UNDER 3.2.1) ANSLDW, N. G., (BOAC, LONDON AIRPORT, (ENGLAND)).

ERG, SANFORD V., NETWORKS IN ECONCMICS, (FLORIDA, UNIV. OF, GAINESVILLE), NETWORKS AND DISCIRLINES. PROCEEDINGS OF THE EDUCOM FALL CONFERENCE, (ANN ARBOR, MI, OCTOBER 11-13, 1973), 1973, P 25-37. B REFS (ANNDTATION UNDER 4.2.9) BERG, SANFORD V.

20000N, EOWARD K., SR., W. J. BARR, COST EFFECTIVE PRIORITY ASSIGNMENT IN NETWORK COMRUTERS, (ILLINDIS, UNIV. OF, URGANA, BELL TELEPHONE LABS. INC., PISCATAWAY, NJ). AFIPS CONFERENCE PROCEEDINGS. VOLUME 41, PART II, 1972. FALL JOINT COMPUTER CONFERENCE, (ANAHEIM, CA, DECEMBER S-7, 1972), AFIPS PRESS, MONTVALE, NJ, 1972, (LC 55-44701), P 755-763, 9 REFS

THE PROBLEM ADDRESSED HERE IS THE OPTIMAL ASSIGNMENT OF TASKS TO AVAILABLE PROCESSORS IN A COMPUTER NETWORK WHICH PERMITS LOAD-LEVELING. A MODEL IS DEVELOPED BASED ON USER-SPECIFIED DEADLINES FOR PARTICULAR TASKS; TASKS CLOSER TO THEIR DEADLINE ARE ASSIGNED GREATER 'VALUE' FOR PROCESSING AS COMPARED WITH JOBS WITH TIME TO SPARE. AN ALGORITHM IS DEVELOPED TO MAXIMIZE A DEFINED MEASURE OF COST-EFFECTIVENESS BASED ON THIS MODEL. THE OPERATION OF THE ALGORITHM IS ILLUSTRATED IN (ALSC UNDER S.7)

- CORNEW, RONALO W., OR., PHILIP M. MORSE, OISTRIBUTEO COMRUTER NETWORKING: MAKING IT WORK ON A REGIONAL BASIS, (NEW ENGLAND BOARO OF HIGHER EQUCATION, WELLESLEY, MA, MASSACHUSETTS INST, OF TECH., CAMBRIDGE, OPERATIONS RESEARCH CENTER), SCIENCE, VOL 189, IS AUG 75, P 523-531, 21 REFS (ANNOTATION UNCER 3.1.0)
- COTTON, IRA W., NETWORK MANAGEMENT SURVEY, NATIONAL BUREAU OF STANDAROS, WASHINGTON, OC, INST, FOR COMPUTER SCIENCES AND TECHNOLOGY, FEB 74, NBS TN-805, NSF AG-350, 83P

THIS REPORT PRESENTS SOME OF THE RESULTS OF A STUDY OF MANAGEMENT PRACTICES IN OIFFERENT COMPUTER NETWORKS, FURNER NETWORKS WERE CHOSEN AS TYPICAL OF DIFFERENT APPROACHES TO NETWORK INVELENTATION AND MANAGEMENT: OEFENSE ADVANCED RESEARCH PROJECTS AGENCY (APRA) NETWORK, MENTI NETWORK, TRIANGE UNIVERSITIES COMPUTATION CENTER (TUCC) OREGON STATE REGIONAL NETWORK AND TYMNET, A COMMENCIAL NETWORK, CAMMON FORMAT IS EMPLOYED TO SURVEY EACH NETW WHILE THE REPORT IS NOT INTENDED TO BE PRESCRIPTIVE, SOME MEMPIAL DISENVITIONS ARE PRESCRIPTIONED FOR EACH TOPIC NETWORK . COVERED, (ALSO UNDER 5.3. 5.7)

DAVIS, M. S., ECONOMICS--POINT OF VIEW OF DESIGNER AND OPERATOR, (NORTH CAROLINA, UNIV. OF, CHAPEL HILL), INTERDISCIPLINARY CONFERENCE ON MULTIPLE ACCESS COMPUTER NETWORKS, (AUSTIN, TX, APRIL 2D-22, 1970), APR 70, P 4-1-1--4-1-7 (ANNOTATION UNDER 5.3)

GLASER, GEORGE, THE CENTRALIZATION VS. DECENTRALIZATION ISSUE: ARGUMENTS, ALTERNATIVES, AND GUIDELINES, (MCKINSEY AND. CO. INC., SAN FRANCISCO, CA), IAG JURNAL, VCL 4, ISSUE I, 1971, P I5-28, 6 REFS

CENTRALIZATION VERSUS DECENTRALIZATION OF DATA PROCESSING STAFF, EDVIPMENT, AND AUTHORITIES IS DISCUSSED. THE ADVANTAGES AND DISADVANTAGES DF EACH APPROACH ARE PRESENTED AND CRITERIA FOR MAKING DECISIONS RELATIVE TO DEGREE OF CENTRALIZATION ARE DEVELOPEO. THIS IS GOO TREATMENT OF AN IMPORTANT ISSUE.

HERZOG, BERTRAM, ORGANIZATIONAL ISSUES AND THE COMPUTER NETWORK MARKET, (MICHIGAN, UNIV, OF, ANN ARBOR, MERIT COMPUTER RZOG, BERTRAM, URGANICATIUNAL IBDUED WHO THE GUMERIAN TIONAL CONFERENCE, DIGEST OF PAPERS, *COMPUTING NETWORKS FROM NETWORK). CCWRCCN 73 - SEVENTH ANNUAL IEEE COMPUTER SOCIETY INTERNATIONAL CONFERENCE, DIGEST OF PAPERS, *COMPUTING NETWORKS FROM MINIS THROUGH MAXIS - ARE THEY FOR REAL?* (SAN FRANCISCO, CA, FEBRUARY 27-28, 4ARCH I, 1973), INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS INC., NEW YORK, 1973, (LC 68-1628), P 11-14, 5 REFS (ANNOTATION UNDER S.2)

- INTERFACE MESSAGE PROCESSORS FOR THE ARPA COMPUTER NETWORK, QUARTERLY TECHNICAL REPORT NO. 7, BOLT, BERANEK AND NEWMAN INC., CAMERIOGE, MA, OCT 7D, I JUL-3D SEP 7D, BBN R-2DS9, BBN OTR-7, OAHC IS-69-C-D179. 12P (ANNOTATION UNDER 3.1.1)
- INTERFACE MESSAGE PROCESSORS FOR THE ARPA COMPUTER NETWORK, OWARTERLY TECHNICAL REPORT NO. 6, BOLT, BERANEK AND NEWMAN INC., CAMERIOGE, MA, JAN 71. 1 DCT-31 DEC 70, BBN R-21D3, BBN DTR-6, DAHC IS-69-C-D179, I3P (ANNUTATION UNDER 3.1.1)
- MCKENZIE, ALEXANDER A., BERNARD P. COSELL, JOHN M. MCOUILLAN, MARTIN J. THROPE, THE NETWORK CONTROL CENTER FOR THE ARPA NETWORK, (BOLT, BERANEK AND NEWMAN INC., CAMBRIDGE. MA), WINKLER, STANLEY, COMPUTER COMMUNICATIONS: IMPACTS AND IMPLEMENTATION. THE FIRST INTERNATIONAL CONFERENCE ON COMPUTER COMMUNICATION, (WASHINGTON, DC, OCTOBER 24-26, 1972), INTERNATIONAL CONFERENCES DN COMPUTER COMMUNICATION, 1972, ICCC 72-CHD-06C-DC, NSF GJ-33239, P 105-191, 6 REFS

THE NETWORK CONTROL CENTER (NCC) CONTAINS A HOST COMPUTER ON THE ARPA NETWORK TO WHICH THE IMP'S PERIODICALLY REPORT AND WHICH SERVES AS A DIAGNOSTIC AND MAINTENANCE-COORDINATING CENTER FOR THE NETWORK, THIS PAPER BRIEFLY DESCRIBES THE NCC HARDWARE AND DISCUSSES SUCH SOFTWARE ISSUES AS NGC-RELATED ROUTINES IN THE IMP'S, OATA COLLECTION AND INTERPETATION MECHANISMS, LINE STATUS OETERMINATION, IMP STATUS AND PROGRAM RELDADING, AND HOST AND LINE THROUGHPUT, DETAILS OF NCC DERATIONS (STAFFING, PROBLEM-HANDLING PROCEDURES, TRACK RECORD) AND A SUMMARY OF DVERALL NOC CEXPERIENCE AND FUTURE PLANS IS INCLUDED, THE PAPER IS AN EXCELLENT GUIDE TO SOME OF THE TYPES OF CONTROL SERVICES WHICH MUST BE PROVIDED FOR AN OPERATIONAL NETWORK OF THIS TYPE.

MCKENZIE, ALEXANDER A., ON CHARACTERIZING NETWORK VULNERABILITY BY K COMPONENT CUTS, (BOLT, BERANEK AND NEWMAN INC.,

S.1 OFERATIONS

FOURTH DATA COMMUNICATIONS SYMPOSIUM, NETWORK STRUCTURES IN AN EVOLVING OPERATIONAL ENVIRONMENT, (QUEBEC CITY, (CANADA), OCTOBER 7-9, 1975), INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YORK, 1975, IEEE 75-CH10001-7-DATA, P 4-24--4-28, 9 REFS

THIS PAPER DESCRIBES THE DEVELOPMENT OF THE ARPA NETWORK DPERATIONS CENTER FROM LATE 1969 THROUGH MID-1975. BOTH HAROWARE AND SOFTWARE ASPECTS ARE DISCUSSED WITH EMPHASIS GIVEN TO A REVIEW OF THE PRESSURES LEADING TO EACH GROWTH STEP. THIS PAPER IS AN UPDATE AND EXTENSION OF AN EARLIER PAPER BY MCKENZIE ENTITLED 'THE NETWORK CONTROL CENTER FOR THE ARPA NETWORK', OATED 1972.

NIELSEN, NDRMAN R., THE STANFORD REGIONAL COMPUTING NETWORK, (STANFORD UNIV., CA), A FIRST REPORT OF AN EXPLORATORY PROGRAM OF REGIONAL COOPERATIVE COMPUTING ACTIVITIES, JAN 70, NSF CCR-70-12, P 137-148, (ANNOTATION UNDER 3.1.2)

ARKER, LOUIS T., JR., THOMAS M. GALLIE, FREDERICK P. BROOKS, JR., JAMES K. FERRELL, INTRODUCING COMPUTING TO SMALLER COLLEGES AND UNIVERSITIES--A PROGRESS REPORT, (NDRTH CAROLINA COMPUTER ORIENTATION PROJECT, RESEARCH TRIANGLE PARK, DUKE UNIV., OURHAM, NC, NORTH CAROLINA, UNIV. OF, CHAPEL HILL, NORTH CAROLINA, STATE UNIV. DF, RALEIGH), (ANNOTATION OF THE ACM, VOL 12, ISSUE 6, JUN 69, P 319-323, 6 REFS PARKER, LOUIS T.. JR.,

SCHELONKA, EDWARC P., RESOURCE SHARING WITH APPANET, (LOS ALAMDS SCIENTIFIC LA8., NH). IEEE 1974 NATIONAL TELECOMMUNICATIONS CONFERENCE, (SAN DIEGO, CA, DECEMBER 244, 1974), INSTITUTE OF ELECTRICAL AND ELECTRONICS ENSINGERS INC., NEW YDRK, 1974, IEEE P-74CH0902-7-CSCB, (LC S7-2072), P 104S-104B, 2 REFS

TECHNICAL AND ADMINISTRATIVE FUNCTIONS FOR THE ARPANET ARE DESCRIBED. THE MOST INTERESTING PORTIONS OF THIS SHORT REPORT ARE THE DETAILED TRAFFIC AND RELIABILITY STATISTICS WHICH ARE PRESENTED FOR 18 MONTHS OF DPERATION, FROM JUNE 1972 THROUGH NEVERBER. 1973. (ALSD UNDER 3, I+2)

REFERUO, EINAR, DAVID L. GROBSTEIN, RONALD P. UHLIG, WHOLESALE-RETAIL SPECIFICATION IN RESDURCE SHARING NETWORKS, (STEFFERUO (EINAR) AND ASSOCIATES, LOS ANGELES, CA. PICATINNY ARSENAL, ODVER, NJ, MIS, U.S. ARMY MATERIEL COMMAND), COMPUTER, VOL 6, ISSUE 8, AUG 73, P 31-37, 14 REFS STEFFERUD.

A MODEL FOR THE MANAGEMENT OF COMPUTER NETWOPKS AND AN APPRDACH (THE WHOLESALE/RETAIL CONCEPT) THAT THE AUTHORS HAVE FCUND PROFISING IN THEIR EFFORTS TO SOLVE THE PROBLEMS OF NETWORK RESOURCE MANAGEMENT ARE PRESENTED.

STEVENS, MARY ELIZABETH, PROBLEMS OF NETWORK ACCOUNTING, MONITORING AND PERFORMANCE MEASUREMENT, NATIONAL BUREAU OF STANDARDS, WASHINGTON, DC, CENTER FOR COMPUTER SCIENCES AND TECHNOLDGY, SEP 70, NBS REPORT 10-SS9, NBS 6006400, 133P, REES

(ANNOT AT IDN UNDER S.3)

WHALEY, RANDALL M., PROMOTIDN AND ECONOMICS OF RESOURCE SHARING, (UNIVERSITY CITY SCIENCE CENTER, PHILADELPHIA, PA), GREENBERGER, MARTIN, JULIUS ARDNOFSKY, JAMES L, MCKENNEY, WILLIAM F. MASSY, NETWORKS FDR RESEARCH AND EDUCATION: SHARING COMPUTER AND INFORMATION RESDURCES NATIONNIDE, MIT PRESS, CAMBRIDGE, MA, 1973, P 345-355

THE AUTHOR DISCUSSES RESOURCE SHARING. ME BEGINS WITH THREE INITIAL ASSERTIONS AND ELABORATES ON EACH. (1) / SHARED COMPUTER RESOURCE STARLING. HE BEGINS ATTHINED AND MANAGED LIKE A BUSINESS. (2) THE PROBLEMS OF OEVELOPING, OPERATING, AND MANAGING COMPUTING NETWORKS ARE THE SAME AS THOSE ENCOUNTERED IN THE DEVELOPMENT, OPERATION AND MANAGEMENT OF SHARED COMPUTING RESOURCE CENTERS. (3) THE SUCCESS OF A NETWORK DEPENDS ON THE SUCCESSFUL OPERATION OF THE NODES OF THE NETWORK. (ALSO UNDER 1.I)

WYATT, JOE B., THE HAR VARD PLAN, (HARVARD UNIV., CAMBRIDGE, MA), GREENEERGER, MARTIN, JULIUS ARDNOFSKY, JAMES L. MCKENNEY, WILLIAM F, MASSY, NETWORKS FOR RESEARCH AND EDUCATION; SHARING COMPUTER AND INFORMATICN RESDURCES NATIONWIDE, MIT PRESS, CAMBRIDGE, MA, 1973, P 311-319, 2 REFS

COMPUTER OPERATIONS AT MARVARD UNIVERSITY ARE DESCRIBED, BEGINNING WITH THE EARLY DIGITAL COMPUTER MARK 1, TO THE PRESENT. THIS BACKGROUND SETS THE STAGE FOR THE AUTHOR'S PRIMARY POINT, THE NEED FOR A COMPUTING SERVICE METHODOLOGY. HE CONCLUDES BY ENUMERATING THE OBJECTIVES OF SUCH A METHODOLOGY.

5.2 MARKET ANALYSIS

ANDREWS, GLENN E., FITZROY KENNEDY, THE DATA COMMUNICATIONS MARKET IN THE UNITED STATES, LITTLE (ARTHUR D.) INC,, CAMBRIDGE, MA, SEP 66, SBP, 39 REFS

THIS MARKET SURVEY, THOUGH SOMEWHAT DATED, STILL CONTAINS MUCH INFORMATION OF INTEREST, THE REPORT COVERS THREE MAIN AREAS: THE PROJECTED DATA COMMUNICATIONS MARKET IN THE U.S. THROUGH 1970, INDUSTRY STRUCTURE, AND SYSTEM CHARACTERISTICS AND COSTS.

RISON, WILLIAM E., STEPHEN D. CROCKER, THE IMPACT OF NETWORKS DN THE SOFTWARE MARKETPLACE, (AIR FORCE DATA Automation Agency, washington, Dc, air force data services center, defense advanced research projects agency, arlington, VA). CARL SON.

VA). EASCON '74, IEEE ELECTRONICS AND AEROSPACE SYSTEMS CONVENTION, (WASHINGTON, DC, OCTOBER 7-9, 1974), INSTITUTE DF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YORK, 1974, IEEE 74-CHO-883-I-AES, (LC 73-2277), P 304-308, [1 REFS (ANOTATION UNDER 4.3)

DUNN, D. A., ALTERNATIVE FUTURE COMPUTER-COMMUNICATION MARKETS, (STANFORD UNIV., CA), WINKLER, STANLEY CONDUCTER COMPUTER COMPUTER MALUMMUNICATION MARKETS, (STANFORD UNIV, CA), WINKLER, STANLEY, COMPUTER COMMUNICATIONS: IMPACTS AND IMPLEMENTATION. THE FIRST INTERNATIONAL CONFERENCE ON COMPUTER COMMUNICATION, (WASHINGTON, DC, OCTOBER 24-26, 1972), INTERNATIONAL CONFERENCES DN CDMPUTER COMMUNICATION, 1972, ICCC 72-CHO-690-8C, NSF GJ-33239, P 63-67, II REFS (ANNOTATION UNDER S.4)

ENSLOW, PHILIP H., JR., LT. CDL., NETWORK VIABILITY: ECONOMIC, LEGAL, AND SDCIAL CONSIDERATIONS, (EXECUTIVE DFFICE DF THE PRESIDENT, WASHINGTON, DC. OFFICE OF TELECOMMUNICATIONS POLICY), COMPCON 73 - SEVENTH ANNUAL IEEE COMPUTER SOCIETY INTERNATIONAL CONFERENCE, DIGEST DF PAPERS. *COMPUTING NETWORKS FROM MINIS THROUGH MAXIS -- ARE THEY FOR REAL?', (SAN FRANCISCO, CA, FEBRUARY 27-28, MARCH 1, 1973), INSTITUTE DF ELECTRICA AND ELECTRONIC EMOINERS SINC., NEW YORK: 1973, (LC 60-1628), P 7-10, 2 REFS (ANNOTATION UNDER 5.4)

HERZOG, BERTRAM, ORGANIZATIONAL ISSUES AND THE COMPUTER NETWORK MARKET, (MICHIGAN, UNIV. OF, ANN ARBOR, MERIT COMPUTER NETWORK).

NETWORK). CCWPCCN 73 - SEVENTH ANNUAL IEEE COMPUTER SDCIETY INTERNATIONAL CONFERENCE, DIGEST DF PAPERS. 'COMPUTING NETWORKS FROM MINIS THROUGH MAXIS -- ARE THEY FOR REAL?'. (SAN FRANCISCO, CA. FEBRUARY 27-20, MARCH 1. 1973), INSTITUTE OF ELECTRICAL ANC ELECTRONIC ENGINEERS INC., NEW YORK, 1973, (LC 60-1622), P 11-14, S REFS

WITH THE ADDITION OF A COMPUTER NETWORK, EXISTING ORGANIZATIONAL RELATIONSHIPS ARE COMPLICATED. THIS PAPER EXPLORES THESE COMPLICATIONS THROUGH THE INTERACTIONS BETWEEN THE USER. RETAILER, AND WHOLESALER IN THE CONTEXT OF THE COMPUTER NETWORK MARKET. EXPERIENCES WITH THE MERIT NETWORK SERVE AS EXAMPLES. (ALSO UNDER 5+1)

R, K, LAY, THE WIRED CITY: SERVICES FOR HCME DELIVERY VIA INTERACTIVE CABLE TV. (MITRE CORP. MASON. W. F ... WASHINGTON, DC). WINKLER, STANLEY, COMPUTER COMMUNICATIONS: IMPACTS AND IMPLEMENTATION. THE FIRST INTERNATIONAL CONFERENCE ON COMPUTER CCMMUNICATION, (WASHINGTON, DC, OCTOBER 24-26, 1972). INTERNATIONAL CONFERENCES ON COMPUTER COMMUNICATION, 1972, ICCC 72-CHO-090-BC, NSF GJ-33239, P 420-424 (ANNOTATION UNDER 4.3)

MASSY, WILLIAM F., NETWORK ECONOMICS AND FUNDING. REPORT OF WORKSHOP 12, (STANFORD UNIV., CA), GREENBERGER, MARTIN, JULIUS ARDNOFSKY, JAMES L. MCKENNEY, WILLIAM F. MASSY, NETWORKS FOR RESEARCH AND EDUCATION: SHARING COMPUTER AND INFORMATION RESOURCES NATIONWIDE, MIT PRESS, CAMBRIDGE, MA, 1973, P. 305-402. I REFS (ANNOTATION UNDER 5.3)

MOORE, K. ROGER, DR., ECONOMICS OF THE NETWORK MARKETPLACE. (TEXAS TECH UNIV., LUBBOCK, ARMY COMPUTER SYSTEMS COMMAND,

S. 2 MARKET ANALYSIS

FORT BELVOIR, VA), EASCON *7*, IEEE ELECTRONICS AND AEROSPACE SYSTEMS CONVENTION, (WASHINGTON, OC, OCTOBER 7-9, 1974), INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YORK, 1974, IEEE 74-CHO-683-1-4E5, (LC 73-2277), P 294-302, 90 REFS

THE TITLE OF THIS ABTICLE IS QUITE OESCRIPTIVE OF ITS CONTENT. A SMORT BUT EXCELLENT DESCRIPTION IS GIVEN OF ECONOMIES OF SCALE AND ECONOMIES OF SPECIALIZATION AMD HOW THEY OPERATE IN A NETWORK ENVIRONMENT. THE KINOS OF ECONOMIES ARE RELATED TO NETWORK TOPOLOGY IN THAT STAR METWORKS ARE LIKELY TO EXHIBIT ONLY ECONOMIES OF SCALE WHILE DISTRIBUTED NETWORKS WAY EXHIBIT BOTH ECONOMIES OF SCALE AND OF SPECIALIZATION. THE READER WISHING A MORE OETAILED TREATMENT OF THIS AND RELATED SUBJECT MATTER IS REFERRED TO THE AUTHOR'S EARLIER WORK. "MANAGEMENT STRATEGIES FOR AOP NETWORKING." (ALSO UNDER 5.3, 4.3)

NUGENT, WILLIAM R*, NEW CHANNELS OF DISTRIBUTION IN THE INFORMATION INDUSTRY, (LIBRARY OF CONGRESS, WASHINGTON, OC). FACTS AND FUTURES, WHAT'S HAPPENING NOW IN COMPUTING FOR HIGHER EQUCATION, PROCEEDINGS OF THE EQUCOM FALL CONFERENCE, (PRINCETON, NJ, OCTOBER 9-11, 1973), INTERUNIVERSITY COMMUNICATIONS COUNCIL INC, (EDUCOM), PRINCETON, NJ, 1974, (LC 74-79222), P 260-267, 6 REF5

THE AUTHOR DESCRIBES THE EMERGENCE OF THREE ROLES IN THE INFORMATION ECONOMY; MANUFACTURER, RETAILER, AND BROKER. AMONG THE FACTORS HE IOENTIFIES FOR SUCCESS IN THE INFORMATION INDUSTRY ARE THE DEVELOPMENT OF UNIQUE, DISTINCTIVE, NCN-COMPETITIVE SERVICES, CAPITALIZING ON LOW MARGINAL COSTS WHILE OPERATING AT NEAR CAPACITY, AND IMPROVEMENTS IN DISTRIBUTION THROUGH INFORMATION NETWORKS.

STEFFERUO, EINAR, JOSEPH T, HOOTMAN, STRUCTURE OF THE NETWORK MARKETPLACE, (NETWORK MANAGEMENT ASSOCIATES, LOS ANGELES, (A), EASCON *74. IEEE ELECTRONICS AND AEROSPACE SYSTEMS CONVENTION, (WASHINGTON, OC, OCTOBER 7-9, 1974), INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YORK, 1974, IEEE 74-CHO-883-1-AES, (LC 73-2277), P 289-293, 17 REFS

THE NEW COMPUTER-COMMUNICATION NETWORKS WHICH HAVE BEEN DEVELOPING ARE SEEN AS PROVIDING THE TRANSPORT SYSTEM FOR COMPUTER-EASED PRODUCTS AND SERVICES, THIS TRANSPORT SYSTEM WILL PERMIT THE COMPUTER INDUSTRY TO TRANSFORM ITSELF FROM COTTAGE INDUSTRY TO MASS PRODUCTION AND MASS OISTRIBUTION MODE, WITH ATTENDENT ECOMOMIES, PRODUCTION IS SEPARATE FROM DISTRIBUTION, FOR WHICH THERE MAY BE SEVERAL LEVELS, AND VALUE CAN BE ADDED BY A VARIETY OF INTERMEDIATE SUPPLIERS ALONG THE WAY. SOME OF THESE ADDED VALUE SERVICES FOR COMPUTER SERVICES AND COMMUNICATIONS ARE IDENTIFIED, AND THE CHARACTERISTICS OF THE NEW MARKETPLACE ARE DISCUSSED. THE LENGTH OF THE PAPER ONLY PERMITS AN OVERVIEW, BUT IT IS A USEFUL INDOLUCTION.

IHOMPSON, JEMN P., THE WIRED CITY: COMMERCIAL SERVICES TO BE PROVIDED BY BROADBAND TELECOMMUNICATIONS SYSTEMS, (LITTLE (ARTHUR 0.) INC., CAMBRIDGE, MA). WINKLER, STANLEY, COMPUTER COMMUNICATIONS: IMPACTS AND IMPLEMENTATION. THE FIRST INTERNATIONAL CONFERENCE ON COMPUTER COMMUNICATION. (WASHINGTON, OC, OCTOBER 24-26, 1972), INTERNATIONAL CONFERENCES ON COMPUTER COMMUNICATION, 1972, ICCC 72-CHO-690-BC, NSF GJ-33239, P 425-42B

THE RESULTS OF A MARKET STUDY OF THE POTENTIAL USE OF COMPUTERS IN THE HOME (THROUGH USE OF TERMINALS) TO PROVIDE, FOR EXAMPLE, ELECTRONIC MAIL, THE ELECTRONIC NEWSPAPER, EDUCATION IN THE HOME, AND HOME SHOPPING SERVICES ARE PRESENTED. THE PROJECTIONS ARE OPTIMISTIC. (415C UNDER 4.34, 1.50)

WITHINGTON, FREDERIC G., THE MARKET FOR A COMPUTER UTILITY INDUSTRY, (LITTLE (ARTHUR O.) INC., CAMBRIDGE, MA), GRUENBERGER, F., COMPUTERS AND COMMUNICATIONS--TOWARD A COMPUTER UTILITY, PRENTICE-HALL INC., ENGLEWOOD CLIFFS, NJ, 1968, (K SIOI-667, LC 68-16776), P 67-77

THIS ARTICLE 10ENTIFIES SEVERAL CHARACTERISTICS OF POTENTIAL MARKETS FOR COMPUTER UTILITIES (PARTICULARLY NOTABLE OF SMALLER USERS): RELUCTANCE TO ACQUIRE COMPUTERS, RELUCTANCE TO DEVELOP PROGRAMS, AND OESIRE FOR RESPONSIVE INDIVIOUAL SERVICE. POTENTIAL SERVICES ARE IOENTIFIED AS THE EQUIPMENT UTILITY, SUBSCRIPTION SERVICES, AND TIME-SHARED SERVICES. THE MARKET IS NOT SEEN OEVELOPING ACCORDING TO ANY PLAN, BUT IN RESPONSE TO THE ACTIONS OF A DIVERSE GROUP OF ENTREFRENEURS, (ALSO UNDER 4-3)

S.3 FINANCIAL

- BARR, WILLIAM J., COST EFFECTIVE ANALYSIS OF NETWORK COMPUTERS, ILLINOIS, UNIV, OF, URBANA, OEPT, OF COMPUTER SCIENCE, AUG 72, 10-OCS R-72-538, NSF GJ-28289, (PB-211 784), 739, 44 REFS (ANNOTATION UNDER 2.1.2)
- EAUER, WALTER F., OR., RICHARO H. HIL, ECONOMICS OF TIME-SHAREO COMPUTING SYSTEMS. PART 1, (INFORMATICS INC., MA), OATAMATION, VOL 13, ISSUE I1, NOV 67, P 48-52, 55, 2 REFS

THIS IS AN INTERESTING COLLECTION OF COMMENTS AND GENERALLY SOUNDLY BASED OBSERVATIONS ON BENEFITS AND PROBLEMS OF TIME-SHARING, TOPICS ON ECONOMIES OF SCALE AND ACCOUNTING FOR SYSTEM RESOURCES USED ARE RELEVANT TO HORE GENERAL NETWORK PLANNING.

BAUER, WALTER F., DR., RICHARO H, HILL, ECONOMICS OF TIME-SMARED COMPUTING SYSTEMS. PART 2, (INFORMATICS INC., MA), OATAMATION, VOL 13, ISSUE 12, DEC 67, P 41, 43, 46-49

SEE ANNOTATION FOR PART 1 OF THIS 2-PART ARTICLE.

BEERE, MAX P., THE ECONOMICS OF NEW INFORMATION NETWORKS, (PACKET COMMUNICATIONS INC., WALTHAN, MA), HALL, ARTHUR O., III. DIGEST OF THE CONFERENCE ON THE ECONOMIES OF SCALE IN TODAY'S TELECOMMUNICATIONS SYSTEMS, (WASHINGTON, OC, SEPTEMBER 13, 1973), INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YORK, 1973, IEEE 73-CHO-BSO-O-SCALE, P 36-38, 4 REFS (ANNOTATION UNDER 3,2.9)

BERG, SANFORD V., PLANNING FCR COMPUTER NETWORKS: THE TRADE ANALOGY, (FLORIDA, UNIV. OF, GAINESVILLE), Management science, vol 21, issue 12, aug 75, p 1488-1465, 16 Refs

RESOURCE SHARING IN COMPUTER NETWORKS EXHIBITS MANY OF THE SAME PROPERTIES AS INTERNATIONAL TRADE, THIS ARTICLE DEVELOPES THE ANALCGY BY EXPLORING MANY OF THE INSTITUTIONAL BARRIERS WHICH FREQUENTLY LIMIT THE EXTENT OF RESOURCE SHARING THAT IS PERMITTED ON A COOPERATIVE COMPUTER NETWORK. SCME SOLUTIONS ARE SUGGESTED, BASED ON THE EXPERIENCE WITH INTERNATIONAL TRADE.

- CHOU, W., M. GERLA, H. FRANK. COMMUNICATION NETWORK COST REOUCTION USING DOMESTIC SATELLITES. (NETWORK ANALYSIS CORP., GLEN COVE, NY). PROCEEDINGS OF THE 1974 SYMPOSIUM, COMPUTER NETWORKS: TRENOŚ AND APPLICATIONS, (GAITHERSBURG, MO, MAY 23, 1974), INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YORK, 1974, 74CHOB35-9C, P 9-14, 17 REFS (ANNOTATION UNDER 3.2.1)
- COTTON, IRA W,, NETWORK MANAGEMENT SURVEY, NATIONAL BUREAU OF STANDARDS, WASHINGTON, DC, INST. FOR COMPUTER SCIENCES AND TECHNOLOGY, FEB 74, MBS TN-BOS, NSF AG-350, 83P (ANNOTATION UNDER 5,1)
- COVIELLO, GINO J., ROY D. ROSNER, COST CONSIDERATIONS FOR A LARGE DATA NETWORK, (DEFENSE COMMUNICATIONS AGENCY, RESION, VA), THE SECOND INTERNATIONAL CONFERENCE ON COMPUTER COMMUNICATION. COMPUTER COMMUNICATION TODAY AND UP TO 1985, (STOCKHOLM, (SWEDEN), AUGUST 12-14, 1974), INTERNATIONAL COUNCIL OF ICCC, 1974, P 289-294, 6 REFS (ANDIATICN UNDER 1.6)
- DAVIS, M. S., ECONOMICS--POINT OF VIEW OF DESIGNER AND OPERATOR. (NORTH CAROLINA, UNIV, DF. CHAPEL HILL), INTERDISCIPLINARY CONFERENCE ON MULTIPLE ACCESS COMPUTER NETWORKS, (AUSTIN. TX, APRIL 20-22, 1970), APR 70, P 4-1-1--0-1-7

THIS PAPER PROVIDES SOME EXCELLENT INSIGHT INTO THE ECONOMIC CONSIDERATIONS OF THE TRIANGE UNIVERSITIES COMPUTER CENTER (TUCC) A NETWORK SERVING THE UNIVERSITY OF NORTH CARDLINA, N. C. STATE, AND DUKES. THE INTRODUCTION GIVES THE REASONS FOR THE EXISTENCE OF TUCC-- ECONOMIES OF SCALE, SHARING OF PERSONNEL, AND COMMUNALITY OF PROGRAMS--A NO THE CONFIGURATION AND SERVICES, THE ANALYSIS OF THE ECONOMIC AND POLITICAL PROBLEMS FACING TUCC COULD BE GENERALIZED TO THE MANAGEMENT DE OTHER NETWORK COMPUTING FACILITIES. SA3 EINANCIAL

(ALSO UNDER S.I)

DEI ROSSI, J. A., G. F. MILLS, G. C. SUMMER, A TELEPHONE-ACCESS BIOMEDICAL INFORMATION CENTER, (NATIO Standards, Washington, CC, center for computer sclences and technology, rand corp., santa monica, ca). Derrations research, Vol 20, issue 3, may-jun 72, p 643-667, 4 REFS (NATIONAL BUREAU OF

TELEPHONE-ACCESS INFORMATION SYSTEMS ARE ANALYZED, PARTICULARLY WITH REGARD TO RECORDED MESSAGES ON SUBJECTS OF INTEREST TO PHYSICIANS, BUT WITH GENERAL APPLICABLITY, GUEING THEORY IS USED TO ARRIVE AT THE NUMBER OF LINES REDUIRED FOR ACCOMMODATING PEAK TRAFFIC. RATE STRUCTURES ARE ANALYZED IN RELATION TO VOLUME OF CALLS. ALSO EXAMINED ARE THE SENSITIVITIES OF COMMUNICATIONS COSTS TO ERRORS IN USAGE ESTIMATES, VARIATIONS IN SERVICE TIME, AND CHANGES IN PEAK HOUR CONDITIONS.

OITTBERNER, DONALD L., TELECOMMUNICATIONS COSTS, BECKER, JOSEPH, PROCEEDINGS OF THE CONFERENCE ON INTERLIBRARY COMMUNICATIONS AND INFORMATION NETWORKS, (WARRENTON, VA, SEPTEMBER 28-OCTOBER 2, 1970), AMERICAN LIBRARY ASSOCIATION, CHICAGO, IL, 1971, DEC 0-9-230288-A235(095), (LC 70-18596), P 160-162

THIS SHORT PAPER PROVIDES A GOOD INTRODUCTION OF FACTORS AFFECTING TELECOMMUNICATIONS COSTS. THE DISCUSSION FOCUSES ON THE ISSUES THEMSELVES, RATHER THAN BECOMING ENMESHED IN A PRESENTATION OF THE DETAILS OF CURRENT RATE STRUCTURES.

CARSON E. AGNEW, ECONOMICS OF INTERNATIONAL STANDARDS FOR COMPUTER COMMUNICATION, (STANFORD, UNIV. OUNN, OONALO A.. UNN GONALD A., CARSUN E. AGNEW, EQUNUMIES OF INTERNATIONAL STANDARDS FOR COMPOSED COMMUNICATION, CSTANDARD, ONLY OF, CA. GEPT. OF ENGINEERING-ECONOMIC SYSTEMS). THE SECONC INTERNATIONAL CONFERENCE ON COMPUTER COMMUNICATION. COMPUTER COMMUNICATION TODAY AND UP TO 1985. (STOCKHOLM. (SWEGEN), AUGUST 12-14, 1974), INTERNATIONAL COUNCIL OF ICCC, 1974, P 29S-298, 6 REFS

THE ECCNOMIC CONSEQUENCES OF THE GROWTH OF COMPUTER NETWORKS ACROSS NATIONAL BORDERS ARE EXPLORED IN TERMS OF THE BENEFITS TO BE REALIZED AND FACTORS LIKELY TO LIMIT OR DELAY SUCH GROWTH. TWO TYPES OF DENEFITS ARE LOENIT ECONOMIES OF SCALE ARISING FROM SERVING LARGER USER GROUPS, AND EXTERNAL GENEFITS WHICH AR ISE FROM THE ADDED OPPORTUNITY TO COMMUNICATE WITH MORE SYSTEMS. SIGNIFICANT AREAS OF CONCENT FOR INTERNATIONAL NETWORKING ARE IDENTIFIED AS SECURITY, PRIVACY OF THE INDIVIDUAL. COPYRIGHT. BALANCE OF PAYMENTS AND OF TRADE, AND DIVISION OF BENEFITS. NO SPECIFIC CONCLUSIONS ARE REACHED BY THE DISCUSSION. IDENTIFIED:

NNN 0. A., A. J. LIPINSKI, ECONOMIC CONSIDERATIONS IN COMPUTER-COMMUNICATION SYSTEMS, (STANFORD UNIV., CA. DEPT. DF ENGINEERING-ECONOMIC SYSTEMS, INSTITUTE FOR THE FUTURE, MENLO PARK, CA), Abramson, Norman, Franklin F., Kudo, Computer-Communication Networks, Prentice-Hall Inc., Englewood cliffs, nj, 1973, Computer Applications in Electrical Engineering Series, (TKS102.5.4283), P. 371-422, 30 REFS OUNN, 0.

USERS, SYSTEM SUPPLIERS AND THE FEDERAL GOVERNMENT ARE EACH INTERESTED IN DIFFERENT COST-PERFORMANCE ASPECTS OF COMPUTER-COMMUNICATION SYSTEMS. THIS PAPER LOOKS AT ECONOMIC CONSIDERATIONS THAT ARE OF CONCERN TO USERS AND SYSTEM SUPPLIERS. IT INCLUDES A GENERAL DISCUSSION ON COST-PERFORMANCE ANALYSIS. DOECISION FRAMEWORK, AND COST COMPONENTS PERFORMANCE DIMENSIONS. AN EXAMPLE OF A HYDOTHETICAL DECISION PROBLEM IS GIVEN AND THE COSTS OF COMPUTER COMMUNICATIONS, DATA TRANSMISSION. CPU MEMORY, TERMINALS, AND SOFTWARE ARE DISCUSSED. FINALLY, THE FUTURE DEMAND FOR COMPUTER COMMUNICATIONS IS FORECASTED. (ALSO UNDER I.6)

- CUNN, 0. A., THE ECONOMICS OF UNIVERSITY COMPUTER NETWORKING, (STANFORD, UNIV. OF, CA), FACTS AND FUTURES. WHAT'S HAPPENING NOW IN COMPUTING FOR HIGHER EQUCATION, PROCEEDINGS OF THE EOUCOM FALL CONFERENCE, (PRINCETON, NJ, OCTOBER 9-11, 1973), INTERUNIVERSITY COMMUNICATIONS COUNCIL INC. (EOUCOM), PRINCETON, NJ, 1974, (LC 74-7922), P 66-72, 3 REFS (ANNOTATION UNDER 5.0)
- LIS, LYNN W., THE LAW OF THE ECONCMIES OF SCALE APPLIED TO COMUTER-COMMUNICATION SYSTEM DESIGN, (INTERNATIONAL TELEPHONE AND TELEGRAPH CORP., NEW YORK), COMPCON FALL '75. ELEVENTH IEEE COMPUTER SOCIETY CONFERENCE. HOW TO MAKE COMPUTERS EASIER TO USE. DIGEST OF PAPERS, (WASHINGTON, DC, SEPTEMBER 9-11, 1975), INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YORK, 1975, IEEE 75CH098D-6C, P 299-306, 14 AFES

AN UNUSUALLY CLEAR EXPLANATION OF THE LAW OF THE ECONOMIES OF SCALE IS PRESENTED, ALDNG WITH SOME CAVEATS AS TO WHEN IT APPLIES. STUDIES SEEKING TO EVALUATE THE EFFECTS OF THE LAW IN AREAS RELEXANT TO COMPUTER COMMUNICATIONS ARE THEN REVIEWED, REVEALING A RATHER NARROW RANGE OF RESULTS (THUS SUPPORTING WICE APPLICABILITY OF THE LAW).

- COLOSTEIN, BERNARO, THE CASE FOR NETWORKS, (UNITED DATA CENTERS INC., NEW YORK), Datamation, vol 16, Issue 3, mar 70, p 62-64 CATAMATION. VOL 16. IS (ANNOTATION UNDER I.I)
- DOTMAN, JOSEPH T., THE COMPUTER NETWORK AS A MARKETPLACE, DATAMATION, VOL IB, ISSUE 4, APR 72, P 43+46

IN THIS INTERESTING DISCUSSION ABOUT THE COMPUTER NETWORKING MARKETPLACE THE BASIC OVESTION OF NETWORKS AS 'VIABLE ECONOMIC ENTITLES' IS RAISEO. ALTHOUGH CONTAINING AN AWWARD CATEGORIZATION OF NETWORKS, THE ARTICLE LISTS QUESTIONS AND GENERAL ISSUES THAT SHOULD CONCERN NETWORK SERVICE SELLERS, BUYERS, AND BROKERS. THIS IS GOOD MATERIAL FOR NETWORK PLANNERS AS WELL AS PROSPECTIVE SERVICE BUYERS AND SELLERS.

HRONES, JOHN A., OR., REGIONAL COMPUTER UTILITIES FCR UNIVERSITIES, (CASE WESTERN RESERVE UNIV., CLEVELANO, OH), THE FINANCING AND ORGANIZATION OF COMPUTING IN HIGHER EDUCATION: 1971. PROCEEDINGS OF THE EDUCOM SPRING CONFERENCE, (PHILADELPHIA, PA, APRIL 29, 1971), 1971, P 18-23

THE AUTHOR ADORESSES THE PROBLEMS FACING COLLEGES AND UNIVERSITIES IN FINANCING COMPUTER ACTIVITIES STEMMING FROM CURTAILMENT OF NSF FUNDING AND GROWING BUDGET OEFICITS. HE DESCRIBES HOW THESE PROBLEMS ARE BEING MET AT CASE WESTERN RESERVE UNIVERSITY.

- P., COMPUTER NETWORK USAGE COST-BENEFIT ANALYSIS. (CALIFORNIA, UNIV, OF, LOS ANGELES, GRADUATE SCHOOL I TENTZ. BENNET DE MANAGEMENT). OF MANAGEMENT). Smerrod, J., Information Systems and NetWorks, greenwcco Press, 1975, P 117-132, 18 refs (Annotation Under 5.8)
- MASSY, WILLIAM F., NETWORK ECONOMICS AND FUNDING. REPORT OF WORKSHOP 12. (STANFORD UNIV., CA), GREENEERGER. MARTIN. JULIUS ARONOFSKY JAMES L. MCKENNEY, WILLIAM F. MASSY, NETWORKS FOR RESEAL COMPUTER AND INFORMATION RESOURCES NATIONNIDC, MIT PRESS, CAMBRIDGE, MA. 1973, P. 385-402, 1 REF (STANFORD UNIV., CA), SSY. NETWORKS FOR RESEARCH AND EDUCATION: SHARING

THE TOPICS ADDRESSED BY THIS WORKSHOP FORM THE MAJOR HEADINGS OF THE REPORT: (1) MARKET STRUCTURES AND REGULATORY CONSIDERATIONS, (2) PLANNING FOR NETWORK DEVELOPMENT, AND (3) KEY NEEDS IN NETWORK RESEARCH. (ALSO UNDER 5.2, 5.4)

- MODRE, K. ROGER, OR., ECONOMICS OF THE NETWORK MARKETPLACE, (TEXAS TECH UNIV., LUBBOCK, ARMY COMPUTER SYSTEMS COMMAN FORT BELVOIR, VA), EASCON '74, IEEE ELECTRONICS AND AEROSPACE SYSTEMS CONVENTION, (WASHINGTON, OC, OCTOBER 7-9, 1974), INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YORK, 1974, IEEE 74-CHO-B83-1-AES, (LC 73-2277), P 294-302, 90 REFS , ROGER, DR., ECONOMICS OF THE NETWORK MARKETPLACE. (TEXAS TECH UNIV., LUBBOCK, ARMY COMPUTER SYSTEMS COMMAND, (ANNOTATION UNDER 5.2)
- NIELSEN, NORMAN F., FLEXIBLE PRICING: AN APPROACH TO THE ALLOCATION OF COMPUTER RESOURCES, (STANFORD UNIV., CA), Afips proceedings, 1966 fall joint computer conference, volume 33, part 1, (san francisco, ca, december 9-11, i Thompson Bonk Co., washingtono Oc, 1966, Afips Comference Proceedings, (lc S5-46701), p S21-531, 6 refs CA. DECEMBER 9-II. 1968).

THAS PAPER DISCUSSES THE MANAGEMENT PROBLEMS OF RESOURCE ALLOCATION IN SINGLE COMPUTING CENTERS, BUT THE CONCEPTS APPEAR READILY APPLICABLE TO MULTI-COMPUTER, OISTRIBUTED NETWORKS. THE DISCUSSION IS WELL ORGANIZED, OFFINING A SET OF POSSIBLE UTLIZATION MEASUREMENTS, THAT IS, THE MEASUREMENTS CONCERNING A JOB'S UTILIZATION OF THE COMPONENTS OF A COMPUTING SYSTEM. RESOURCES ARE RELATED TO THOSE MEASUREMENTS, AND FINALLY PRICES ARE ASSIGNED TO THE CHOSEN MEASURES, THEN, A CASE FOR FLEXIBLE PRICING IS PRESENTED IN WHICH A USER CAN SELECT AMONG PRIORITY OUEUES AND BE ELLEE ACCORDING.Y.

CHARDSON, LYMAN E., SYSTEM ECONOMICS FROM THE POINT OF VIEW OF THE USER. (T-SCAN LTO., ONTARIO, (CANADA)), INTERDISCIPLINARY CONFERENCE ON MULTIPLE ACCESS COMPUTER NETWORKS, (AUSTIN, TX, APRIL 20-22, 1970), APR 70, P 4-2-1--4-2-9

S.3. E INANCIAL

THE ECCNOMICS OF SYSTEMS IS DISCUSSED, INCLUDING CONSIDERATIONS FOR TERMINAL EQUIPMENT, COMMUNICATIONS, AND PROCESSING, WITH AN EMPHASIS ON RESPONSIVE SYSTEMS FOR BUSINESS USE. SOME INTERESTING POINTS ANE MADE CONCERNING TERMINAL UTILIZATION AND COMMUNICATIONS TRADE-OFFS.

ROBERTS, LAWRENCE G., NETWORK RATIONALE: A FIVE-YEAR REEVALUATION, (DEPARTMENT OF DEFENSE, ARLINGTON, VA, ADVANCED RESEARCH PROJECTS AGENCY).

RESEARCH PROFERS AVERALLY. ICCMPCON 79 - SEVENTA ANNUAL LEEE COMPUTER SOCIETY INTERNATIONAL CONFERENCE, DIGEST OF PAPERS, *COMPUTING NETWORKS FROM MINIS THROUGH MAXIS -- ARE THEY FOR REAL?*, (SAN FRANCISCO, CA, FEBRUARY 27-28, MARCH I, 1973), INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS INC. NEW YORK, 1973, (LC 68-1622), p 3-5

THIS ARTICLE REVIEWS THE GROWTH OF TRAFFIC ON THE APPA NETWORK AND PRESENTS COST FIGURES TO JUSTIFY A CLAIM THAT THE NETWORK IS COST-EFFECTIVE, THE COST FIGURES ARE MOST INTERESTING AND IMPRESSIVE, BUT THE OATA ARE PRESENTED IN INSUFFICIENT DETAIL TO JUGGE THEIR VALIDITY. (ALSO UNDER 3.1.2)

- SELWYN, LEE L., ECONOMIES OF SCALE IN COMPUTER USE: INITIAL TESTS AND IMPLICATIONS FOR THE COMPUTER UTILITY, MASSACHUSETTS INST, OF TECH., CAMBRIDGE, PROJECT MAC, JUN 70, MIT-MAC TR-68, NONR 4I02(0I}, (AO-7I0-0II), II6P, IO REFS (ANNOTATION UNDER S.4)
- SIMMCRS, OICK 8., NETWORK MANAGEMENT ANO COST ANALYSIS, (TEXAS A ANO M UNIV., COLLEGE STATION), PROCEEDINGS OF THE THIRD TEXAS CONFERENCE ON COMPUTING SYSTEMS, (AUSTIN, TX, NOVEMBER 7-8, 1974), IEEE COMPUTER SOCIETY, LONG BEACH, CA, 1974, 74-CH089S-3C, P 2-3-I-2-3-7, 20 REFS

OETAILED COST PROJECTIONS ARE MADE FOR A REGIONAL COMPUTER NETWORK FOR THE STATE OF TEXAS. SUFFICIENT DATA IS PRESENTED FOR MANY ALTERNATIVES IN TERMS OF NUMBER, SIZE AND DISTRIBUTION OF COMPUTERS TO BE EVALUATED AND COMPARED. WHILE THE PARTICULAR COST FIGURES MIGHT NOT BE APPLICABLE FOR OTHER CASES, THE METHOD OF ANALYSIS IS SDUND AND COULD SERVE AS A MODEL FOR OTHER NETWORKS.

STEVENS, MARY ELIZABETH, PROBLEMS OF NETWORK ACCOUNTING, MONITORING AND PERFORMANCE MEASUREMENT, NATIONAL BUREAU OF STANDAROS, WASHINGTON, OC, CENTER FOR COMPUTER SCIENCES AND TECHNOLOGY, SEP 70. NBS REPORT IO-SS9, NBS 6006400, 133P, 162 REFS

SOME OF THE IMPORTANT MANAGERIAL CONTROL PROBLEMS FACEO BY THE PLANNERS OF A BIOMEDICAL COMMUNICATIONS NETWORK ARE DISCUSSED. NETWORK ACCOUNTING, NETWORK PERFORMANCE MONITORING, AND APPLYING APPROPRIATE MEASURES OF PERFORMANCE EFFECTIVENESS ARE CONSIDERED. ALTHOUGH MORE DUESTIONS ARE RAISED THAN SOLUTIONS PROVIDED, THE ISSUES SHOLD BE OF IMPORTANCE TO ALL NETWORK PLANNERS AND USERS. (ALSO UNDER S.1)

THOMPSON, GORGON 8.. POTENTIAL IMPACT OF USER/AUTHOR RELATIONSHIPS ON PUBLIC DATA NETWORK DESIGN, (BELL-NORTHERN RESEARCH, OTTAWA, (CANADA)), #INKLER, STANLEY, COMPUTER COMMUNICATIONS: IMPACTS AND IMPLEMENTATION. THE FIRST INTERNATIONAL CONFERENCE ON COMPUTER COMMUNICATION, (WASHINGTON, OC, OCTOBER 24-26, 1972), INTERNATIONAL CONFERENCES ON COMPUTER COMMUNICATION, 1972, ICCC 72-CH0-690-BC, NSF GJ-33239, P 248-2S0, 3 REFS

THE THESIS OF THIS ARTICLE IS THAT LACK OF ATTENTION TO THE BUSINESS RELATIONSHIPS BETWEEN USERS AND SUPPLIERS IN TODAY'S TIME-SHARING SYSTEMS HAVE PRODUCED A MECHANISM WHICH IS FAR FROM OPTIMAL FOR PROMOTING NETWORK USAGE, COMPARISONS ARE MADE TO THE PUBLIC SWITCHED NETWORK, WHERE A SINGLE BILL IS RENOFRED FOR SERVICES WHICH MAY BE PROVIDED BY A NUMBER OF SUPPLIERS, AND TO THE OPERATION OF THE COPYRIGHT LAWS IN THE MUSIC BUSINESS, WITH PERFORMANCE RIGHT FEES BEING PAID WHENEVER A SELECTION IS PLATED. THE AUTHOR ARGUES THAT CURRENT METMORK SAIL TO PROVIDE ADENTIFY AND ADDITION OF TO REMADO AUTHORS AND STIMULATE FURTHER OFFERINGS. THE ROLE OF SUCH AUTHORS AND OF TIME-SHARING AS A SERVICE INOUSTRY IS ALSO DISCUSSED.

- TUROFF. MURRAY, OR., PARTY-LINE' AND *01SCUSSION'--COMPUTERIZED CONFERENCE SYSTEMS, OFFICE OF EMERGENCY PREPAREONESS, WASHINGTON, DC, 20 JAN 72, 40P, 4 REFS (ANNOTATION UNDER 4.1.1)
- YAGED, BERNARD, JR., ECONOMIES OF SCALE, NETWORKS, AND NETWORK COST ELASTICITY, (BELL TELEPHONE LABS, INC., HOLMOEL, N.J.) .

NJJ, HALL, ARTHUR 0., III. DIGEST OF THE CONFERENCE ON THE ECONOMIES OF SCALE IN TODAY'S TELECOMMUNICATIONS SYSTEMS, (WASHINGTON, OC, SEPTEMBER I3, 1973), INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC.. NEW YORK, 1973, IEEE 73-CH0-830-0-SCALE, P 26 (ANNOTATION UNDER 2.1:4)

S.4 REGULATORY

BAALMAN, RIEKO, THE FUTURE OF COMPUTER COMMUNICATION--A FACILITY FOR FEW OR A UTILITY FOR MANY?, (SHELL INTERNATIONALE PETROLEUM, HAGUE, (NETHERLANDS)), THE SECOND INTERNATIONAL COMFERENCE ON COMPUTER COMMUNICATION, COMPUTER COMMUNICATION TODAY AND UP TO I9BS, (STOCKHOLM, (SWEDEN), AUGUST 12-14, 1974), INTERNATIONAL COUNCIL OF ICCC, 1974, P 383-388

EACHRACH, MORTON W., COPYDIGHT ASPECTS OF CATV AS UTILIZED IN INFORMATION NETWORKING, BECKER, JGSEPH, PROCEEDINGS OF THE CONFERENCE ON INTERLIBRARY COMMUNICATIONS AND INFORMATION NETWORKS, (WARRENTON, VA, SEPTEMBER 25-OCTOBER 2, 1970), AMERICAN LIBRARY ASSOCIATION, CHICAGO, IL, 1971. DEC 0-9-230288-4235(095), (LC 70-18596), P IS3-IS9, 46 REFS (ANNOTATION UNCER 4.3)

BAKER, OONALO I., ACCESS TO LARGE COMPUTER SYSTEMS, (OEPARTMENT OF JUSTICE, WASHINGTON, OC), WINKLER, STANLEY, COMPUTER COMMUNICATIONS: IMPACTS AND IMPLEMENTATION. THE FIRST INTERNATIONAL CONFERENCE ON COMPUTER COMMUNICATION, (WASHINGTON, OC, OCTOBER 24-26, 1972), INTERNATIONAL CONFERENCES ON COMPUTER COMMUNICATION, 1972, ICCC 72-CHO-690-BC, NSF GJ-33239, P 431-433, 19 REFS

COMPETITION IS CONSIDERED IN THE AREA OF REMOTE ACCESS DATA PROCESSING, OF PARTICULAR INTEREST ARE THE MONOPOLISTIC POSSIBILITIES OF LARGE, HIGHLY SPECIALIZED COMPUTER SYSTEMS COMBINED WITH THE ADVANTAGE OF REMOTE ACCESS. FAIR AND EDUAL ACCESS FOR ALL CUSTOMERS, INCLUDING LATECOMERS, IS PROPOSED WHERE COMPETITION IS IMPOSSIBLE.

EARAN, PAUL, THE COMING COMPUTER UTILITY--LAISSEZ-FAIRE, LICENSING OR REGULATION?, RAND CORP., SANTA MONICA, CA, APR 67.

THIS IS A VERY INTERESTING CONTRIBUTION DISCUSSING SOME OF THE PROBLEMS FACING THE DEVELOPMENT OF NEW COMPUTER COMMUNICATION TECHNOLOGIES WITHIN THE CONSTRAINTS OF PRESENT REGULATION (OR LACK THEREOF) AND CONTAINING RECOMMENDATIONS FOR FUTURE REGULATORY POLICIES. THE CONFLICT ADDRESSED IS THE ONE CREATED BY THE MARRIAGE OF THE UNREGULATED AND ESSENTIALLY OPENLY COMPETITIVE COMPUTER COMPANIES WITH THE HIGHLY REGULATED AND MONOPOLISTIC COMMUNICATIONS INTE THE ARGUMENTS ARE WELL DEVELOPED WITH EXAMPLES AND ANALOGIES (OFTEN AT THE LAYMAN'S LEVEL) AND LEAD TO RECOMMENDATIONS INTENDED TO ENCOURAGE TECHNOLOGICAL INNOVATIONS, PRESERVE COMPETITION, AND PROTECT AGAINST THE ABUSE OF DATA PRIVACY, (ALSC UNDER 4.3)

- BIGELOW, ROBERT P., REGULATION OF COMPUTER COMMUNICATIONS, FACTS AND FUTURES, WHAT'S HAPPENING NOW IN COMPUTING FOR HIGHER EDUCATION, PROCEEDINGS OF THE EDUCOM FALL CONFERENCE, (PRINCETON, NJ, OCTOBER 9-11, 1973), INTERUNIVERSITY COMMUNICATIONS COUNCIL INC. (EDUCOM), PRINCETON, NJ, 1974, (LC 74-79222), P 317-321

THE IMPORTANCE OF COMMUNICATIONS REGULATIONS IS GROWING OUE TO THE INCREASING USE OF COMMUNICATIONS LINES FOR OATA TRANSMISSION. THE AUTHOR DESCRIBES WHAT GROUPS IN AND OUT OF THE GOVERNMENT MOLD COMMUNICATIONS POLICY. HE ENCOURAGES EQUICATORS TO FAMILIARIZE THEMSELVES WITH THE REGULATORY PROBLEMS IN ORDER TO INSURE ECONOMIC COMMUNICATIONS SERVICES FOR CCMPUTING IN HIGHER EQUICATION.

BIGELOW, ROBERT P., SOME LEGAL AND REGULATORY PROBLEMS OF MULTIPLE ACCESS COMPUTER NETWORKS, (HENNESSY, MCCLUSKEY, EARLE AND KILBURN, BOSTON, MA), INTERDISCIPLINARY CONFERENCE ON MULTIPLE ACCESS COMPUTER NETWORKS, (AUSTIN, TX, APRIL 20-22, 1970), APR 70, P 4-5-1--4-5-11, 12 REFS

LEGAL PROBLEMS IN COMPUTING AND COMMUNICATIONS ARE PRESENTED IN AN INTERESTING AND INFORMATIVE MANNER. THE

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AGENCIES WHICH HAVE A DIRECT AND INDIRECT EFFECT ON POLICIES AFFECTING THE COMPUTER AND COMMUNICATIONS INDUSTRIES ARE IDENTIFIED. THE VARIETY OF LEGAL PROBLEMS EFFECTING COMPUTER MANAGEMENT, COMMUNICATIONS MANAGEMENT, AND NETWORK MANAGEMENT ARE THEN DISCUSSED, COVERING SUCH AREAS AS HARDWARE AND SOFTWARE PROCUREME. FOREIGN ATTACHMENTS, SPECIALIZED DATA CARRIERS, THE PRIVACY ISSUE, AND ANTI-TRUST CONSIDERATIONS.

ILCN, N. E., INTERNATIONAL COOPERATION AND REGULATION FOUNDATIONS FOR DEVELOPMENT, (INTERNATIONAL TELECOMMUNICATIONS UNION, GENEVA, (SWITZERLAND)). THE SECOND INTERNATIONAL CONFERENCE ON COMPUTER COMMUNICATION. COMPUTER COMMUNICATION TODAY AND UP TO 1985, (STOCKHOLM, (SWEDEN). AUGUST 12-10, 1974), INTERNATIONAL COUNCIL OF ICCC. 1974, P 11-17 (ANNOTATION UNDER 1.5) EUTLER, R. E., INTERNATIONAL COOPERATION AND REGULATION FOUNDATIONS FOR DEVELOPMENT, (INTERNATIONAL TELECOMMUNICATIONS

COX, KENNETH A., THE PROMISE AND PERIL OF COMPETITION IN INTERCITY COMMUNICATIONS, (MCI COMMUNICATIONS CORP.. WASHINGTON, DC). WASHINGTON, UCJ. WINKLER, STANLEY, COMPUTER COMMUNICATIONS: IMPACTS AND IMPLEMENTATION, THE FIRST INTERNATIONAL CONFERENCE ON COMPUTER CCMMUNICATION, (WASHINGTON, OC. OCTOBER 24-26, 1972), INTERNATIONAL CONFERENCES ON COMPUTER COMMUNICATION, 1972, ICCC 72-CHD-690-86, NSE 6J-32329, P 43-440, 8 REFS

A STRONG CASE FOR COMPETITION IN OATA COMMUNICATIONS IS PRESENTED. THE PRIMARY BENEFIT IS THAT THE PUBLIC MAY CHODSE. ON THE BASIS OF COMPARATIVE PERFORMANCE. BETWEEN THE ESTABLISHED CARRIERS AND THE OFFERERS OF NEW SERVICES. COMPETITORS. IT IS STATED, WILL BE STIMULATED TO PROVIDE INNOVATION, RELIABILITY, ECONDMY, AND IMPROVED QUALITY FOR THE CUSTOMER. THE PERILS OF STIFLING COMPETITION ARE ALSO COVERED. (ALSO UNDER 3.2.1)

CUTLER, CHARLES R., 8EYOND THE COMPUTER INDUIRY (WHO SHOULD BE REGULATED IN COMPUTER/COMMUNICATIONS), (DISTRICT OF COLUMBIA BAR, WASHINGTON), WINKLER, STANLEY, COMPUTER COMMUNICATIONS: IMPACTS AND IMFLEMENTATION, THE FIRST INTERNATIONAL CONFERENCE ON COMPUTER COMMUNICATION, (WASHINGTON, OC, OCTOBER 24-26, 1972), INTERNATIONAL CONFERENCES ON COMPUTER COMMUNICATION, 1972, 1CCC 72-CHC-690-BC, NSF 6J-32239, P 453-460, 10 REFS

TAKING INTO ACCOUNT PAST PRECEDENCES OF THE FCC AND TRADITIONALLY ACCEPTED CONDITIONS FOR UTILITY REGULATION. GUIDELINES ARE PROPOSED TO BE APPLIED IN REGULATING COMPUTER/COMMUNICATIONS ACTIVITIES. INTIALLY THE FCC POLICIES ON DATA COMMUNICATIONS ARE DISCUSSED, RAISING SOME INTRIGUING CONTROVERSIES ON THE ROLE OF MESSAGE-SWITCHING SYSTEM AND THE ANTI-RESALE TARIFF. THE RATIONALES OF REGULATION ARE OUTLINED AND APPLIED TO THE CONTROVERSIAL ISSUES TO ARRIVE AT A SET OF RECOMMENDATIONS STRESSING THE USE OF AS LITTLE REGULATION AS POSSIBLE.

NN, D. A., ALTERNATIVE FUTURE COMPUTER-COMMUNICATION MARKETS. (STANFORD UNIV., CA), WINKLER, STANLEY, COMPUTER COMMUNICATIONS: IMPACTS AND IMPLEMENTATION, THE FIRST INTERNATIONAL CONFERENCE ON COMPUTER COMMUNICATION, (WASHINGTON, DC, OCTOBER 24-26, 1972), INTERNATIONAL CONFERENCES ON COMPUTER COMMUNICATION, 1972, ICCC 72-CHD-69C-BC, NSF 6J-33239, P 63-67, II REFS DUNN. D. A.

THE MARKET STRUCTURE UNDER WHICH COMPUTER-COMMUNICATIONS SYSTEMS WILL DPERATE IS SEEN AS STRONGLY DEPENDENT ON THE REGULATORY ENVIRONMENT UNDER WHICH CABLE TELEVISION DEVELOPS AND THE REGULATIONS GOVERNING COMPETITION BETWEEN THE TELEPPONE CARRIERS AND CABLE TELEVISION SYSTEM OPERATORS. THE AUTHOR SHOWS HOW SEVERAL REALISTIC REGULATORY ALTERNATIVES WHICH COULD BE ACOPTED WOULD RESULT IN WIDELY DIFFERING COMPETITIVE ENVIRONMENTS. (ALSO UNDER 5.2)

NSLOW, PHILIP H., JR., LT, COL., NETWORK VIABILITY: ECONOMIC, LEGAL, AND SOCIAL CONSIGERATIONS, (EXECUTIVE OFFICE OF The president, washington, dc, office of telecommunications policy), compeon 73 - Sevent annual lege computer society international conference, digest of papers. *Computing networks from Minis Through Maxis -- are they for real?*, (san Francisco, car february 27-20, March 1, 1973), institute of electrical and electronic encineers inc. New york, 1973, (lc 60-1620), p 7-10, 2 refs ENSLOW.

THERE ARE ECONOMIC, LEGAL, REGULATORY AND SOCIAL FACTORS WHICH NEED TO BE CONSIDERED DURING THE DESIGN STAGES FOR PUTING NETWORKS. THIS PAPER PRESENTS A GOOD OVERVIEW OF THESE FACTORS. COMPUTING NETWORKS. TI (ALSO UNDER S.2, I.S)

ENSLOW, PHILIP H., JR., MINI-TUTORIAL ON TELECOMMUNICATIONS MANAGEMENT AND POLICY. (EXECUTIVE OFFICE OF THE PRESIDENT, WASHINGTON, OC. OFFICE OF TELECOMMUNICATIONS POLICY), NETWORKS FOR HIGHER EQUCATION, PROCEEOINGS OF THE EDUCOM SPRING CONFERENCE, (WASHINGTON, OC, APRIL 13, 1972), INTERVNIVERSITY COMMUNICATIONS CCUNCL INC. (EDUCOM), PRINCETON, NJ. 1972, P 36-41

THE OFFICE OF TELECOMMUNICATIONS POLICY (OTP) IS INTRODUCED AND ITS ROLE IN POLICY-MAKING ON OATA COMMUNICATIONS IS DISCUSSED. OTP'S FUNCTION WITHIN THE GOVERNMENT, ITS RELATIONSHIP TO THE FEDERAL COMMUNICATIONS COMMISSION (FCC), AND ITS CONCERN FOR BASIC POLICY ISSUES ARE DESCRIBED.

ENSLOW, PHILIP H., JR., NONTECHNICAL ISSUES IN NETWORK DESIGN--ECONDMIC, LEGAL, SOCIAL, AND OTHER CONSIDERATIONS. (EXECUTIVE DEFICE OF THE PRESIDENT, WASHINGTON, OC, OFFICE OF TELECOMMUNICATIONS POLICY), COMPUTER, VOL 6, ISSUE 8, AUG 73, P 20-24, 29-30, 2 REFS

POLITICAL, SOCIAL, LEGAL AND ECONOMIC FACTORS RELATING TO COMPUTER NETWORKS ARE DISCUSSED. THE AUTHOR PRESENTS AN ALTERNATIVE TO THE LINE OF REASONING THAT COMPUTER NETWORKS SHOULD BE REGULATED.

FISCHER, L. RICHARD, LEGAL IMPLICATIONS OF A CASHLESS SOCIETY, (MORRISON, FDERSTER, HOLLOWAY, CLINTON AND CLARK, SAN

FRANCISCO, CA). COMPCON 73 - SEVENTH ANNUAL IEEE COMPUTER SOCIETY INTERNATIONAL CONFERENCE, DIGEST OF PAPERS. *COMPUTING NETWORKS FROM MINIS THROUGH MAXIS -- ARE THEY FOR REAL?*. (SAN FRANCISCO, CA, FEBRUARY 27-28, MARCH 1, 1973), INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS INC., NEW YORK, 1973, (LC 68-1628), P 101-104, 18 REFS

BEFORE OUR SUCIETY CAN TOTALLY MOVE TO A CASHLESS STATE NUMEROUS LEGAL PROBLEMS MUST BE CONSIDERED. THE OEVELOPMENT OF COMPUTER NETWORKS HAS MADE AN ELECTRONIC FUND TRANSFER SYSTEM (EFTS) FEASIBLE. THIS PAPER DISCUS THE PCVEMENT TOWARD A CASHLESS SOCIETY AND SOME OF THE LEGAL PROBLEMS THAT MAY ARISE IF AN EFTS WERE IMPLEMENTEO. (ALSO UNDER I.6)

GERLA, MARIC, MEW LINE TARIFFS AND THEIR IMPACT ON NETWORK DESIGN. (NETWORK ANALYSIS CORP., GLEN COVE, NY), AFIPS CONFERENCE PROCEEDINGS, VOLUME 43, 1974, NATIONAL COMPUTER CONFERENCE, (CHICAGO, IL, MAY 6-10, 1974), AFIPS PRESS, MONTVALE, NJ, 1974, AFIPS CONFERENCE PROCEEDINGS, (LC SS-44701), P 577-582, 6 REFS (ANNOTATION UNCER 3.2.2)

IRWIN, MANLEY R., MULTIPLE ACCESS COMPUTER NETWORKS: THE ROLE OF THE COMMON CARRIER, (NEW HAMPSHIRE, UNIV, OF, DURHAM, WITTEMORE SCHOL DE BUSINESS AND ECONMOIS. Interoisciplinary comperence on multiple access computer networks, (austin, tx, april 20-22, 1970), apr 70, p 4-4-1-4-4-9, 20 REFS

THIS IS A WELL ORGANIZED AND IN-DEPTH DISCUSSION OF THE ROLE OF COMMON CARRIERS IN THE DEVELOPMENT OF MULTIPLE ACCESS COMPUTER NETWORKS. THE AUTHOR SUGGESTS THAT THIS ROLE IS CURRENTLY UNDERGING REASSESSMENT. THE NATURAL MONOPOLY OF THE CARRIERS IS BEING CHALLENGED, AND. AS THEY THEMSELVES ATTEMPT TO DIVERSIFY HORIZONTALLENGY BY OFFERING DATA PRCESSING SERVICES, THE VERTICAL INTEGRATION APPROACH WHICH THEY HAVE FOSTERED IS BEING CHALLENGED BY OTHERS. NO CONCLUSIONS ARE REACHED, EXCEPT THAT PUBLIC POLICY OECISIONS OF CONSIDERABLE IMPORTANCE WILL HAVE TO BE MADE WITHIN A CECADE.

IRWIN. MANLEY R.. TIME-SHARED INFORMATICN SYSTEMS: MARKET ENTRY IN SEARCH OF A POLICY. (NEW HAMPSHIRE, UNIV, OF.

OURHAM), AFIPS PRCCEEDINGS.1967 FALL JCINT COMPUTER CONFERENCE. VOLUME 31. (ANAHEIM, CA. NOVEMBER 14-16.1967), THOMPSON BOOK CO., WASHINGTON, DC. 1967, AFIPS CONFERENCE PROCEEDINGS, (LC SS-44701), P 523-520, 27 REFS

THIS PAPER DISCUSSES THE FCC INVESTIGATION INTO THE POLICY IMPLICATIONS OF COMPUTER TIME-SHARING. THE APPROACH IS TO (1) STATE THE REGULATORY ISSUES AS THE FCC SEES THEM; (2) DISCUSS THE BACKGROUND EVENTS THAT PROMPTED THE INQUIRY; AND (3) EVALUATE SOME OF THE COMPETITIVE ISSUES ASSOCIATED WITH TIME-SHARED COMPUTER SERVICES. THE AUTHOR CONCLUDES THAT THE GRCUND RULES FOR MARKET ENTRY ARE AT STAKE IN THE FCC INVESTIGATION.

HINSON, LELAND L., SDME IMPLICATIONS OF NEW COMMUNICATIONS TECHNOLOGIES FOR NATIONAL SECURITY IN THE 1970S, RANO CORP., SANTA MONICA, CA, SEP 67, RC P-3639, (AD-658 424), 24P, 14 REFS JOHNSON.

THIS DISCUSSION FOCUSES ON SATELLITE COMMUNICATIONS AND ITS POSSIBLE IMPACT ON POLICY IN THE PUBLIC AND MILITARY SECTORS .

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(ALSD UNGER 1.5. 4.3)

KIMBEL, OIETER, RLANNING OF DATA COMMUNICATIONS NETWORKS--ECONOMIC, TECHNOLOGICAL AND INSTITUTIONAL ISSUES, (OFGANISATION FOR ECONOMIC COOPERATION AND DEVELOPMENT, PARIS. (FRANCE)), WINKLER, STANLEY, COMMUTER COMMUNICATIONS: IMPACTS AND IMPLEMENTATION. THE FIRST INTERNATIONAL CONFERENCE ON COMPUTER COMMUNICATION, (WASHINGTON, DC, OCTOBER 24-26, 1972), INTERNATIONAL CONFERENCES ON COMPUTER COMMUNICATION, 1972, ICCC 72-CH-C90-DC, NSF GJ-33239, P 251-259, 19 REFS

TECHNICAL, ECONOMIC AND INSTITUTIONAL ISSUES ARISING FROM THE INTERACTION OF COMPUTERS AND TELECOMMUNICATIONS ARE LIENTIFIED. THE PARER ROINTS OUT THAT SUCH SYSTEMS OFREND ENTIRELY UPON TELECOMMUNICATIONS FACILITIES, AND EXPRESSES THE FEAR THAT THE TELECOMMUNICATIONS INDUSTRY MIGHT BECOME THE LIMITING FACTOR, BOTH FOR THE EXELDIATION OF THE RROMISES OF THE MERGED TECHNOLOGIES AND FOR THE INDUSTRIAL GROWTH OF THE SYSTEMS. IN RLACE OF THE PROSENT VERTICAL ROLICY CONCERT, AN INTEGRATED HOFIZONTAL POLICY ARPROACH IS SUGGESTED TO NEGOTIATE THIS POTENTIAL PROBLEM. THE CASE IS MADE FOR LARGE SCALE NATIONAL PROJECTS AND AN EXAMPLE OF SUCH AN EFFORT IN JARAN IS CITED. (ALSO UNDER 1+1, 1+S)

KUC, FRANKLIN F., RUBLIC ROLICY ISSUES CONCERNING ARPANET, (HAWAII, UNIV. DF. HONOLULU, ALOHA SYSTEM), FOURTH DATA COMMUNICATIONS SYMPOSIUM. NETWORK STRUCTURES IN AN EVOLVING OPERATIONAL ENVIRONMENT, (QUEBEC CITY, (CANADA), OCTOBER 7-9, 1975), INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YORK, 1975, IEEE 75-CH10001-7-DATA, P 3-12--3-17, 13 REFS

THIS RAPER ADDRESSES SOME OF THE PUBLIC ROLICY ISSUES THAT PERTAIN TO THE ARPA NETWORK. DISCUSSED ARE 11) GOVERNMENT INTO AMERA AUDICOSES SUME OF THE PUBLIC ROLLET ISSUES THAT PERTAINT TO THE AMPA NETWORK. DISCUSSED ARE [1] GOVERNMENT GWNERSHIP, [2] INTERNETTING, (3) PRIVACY AND SECURITY, AND (4) ACCOUNTING, EXCISES AND IMPORT TARIFFS. AS KUO POINTS OUT, ONCE THE RROTECTIVE ADJECTIVE "EXPERIMENTAL" HAS BEEN OROPRED, THESE RUBLIC ROLLEY ISSUES MUST BE RESOLVED BEFORE THE NETWORK CAN ASSUME PERMANENT OPERATIONAL STATUS.

LEE, ROBERT E., THE RDLE OF THE FEDERAL COMMUNICATIONS COMMISSION, (FEDERAL COMMUNICATIONS COMMISSION, WASHINGTON, OC). WINKLER, STANLEY, COMMUNER COMMUNICATIONS: IMRACTS AND IMPLEMENTATION. THE FIRST INTERNATIONAL CONFERENCE ON COMPUTER COMMUNICATION, (WASHINGTON, OC. OCTOBER 24-26, 1972), INTERNATIONAL CONFERENCES ON COMPUTER COMMUNICATION, 1972, ICCC 72-CHD-690-8C, NSF G-333239, P 49-50

E FCC*S INTERESTS AND AREAS OF RESPONSIBILITY IN REGULATING COMPUTER COMMUNICATION SYSTEMS ARE BRIEFLY OUTLINED.

MAKIND, YASUD, COMMETITION IN THE FIELDS OF COMMUTERS AND COMMUNICATIONS IN JARAN. (MINISTRY OF POSTS AND

TELECCHMUNICATIONS TORYO, (JARANI), TELECCHMUNICATIONS TORYO, (JARANI), WINKLER, STARLEY, COMPUTER COMMUNICATIONS: IMRACTS AND IMPLEMENTATION, THE FIRST INTERNATIONAL CONFERENCE ON COMPUTER COMMUNICATION, (WASHINGTON, OC. OCTOBER 24-26, 1972), INTERNATIONAL CONFERENCES ON COMPUTER COMMUNICATION, 1972, ICCC 72-CHC-690-8C, NSF GJ-33239, P 441-444

THE EFFECTS OF COMPETITION AND THE FACTORS INFLUENCING COMRETITION IN REMOTE ACCESS DATA PROCESSING AND TELECOMMUNICATIONS IN JAPAN ARE DESCRIBED. IT IS INTERESTING THAT NO COMPETITION IS EXPECTED IN THE FIELD OF TELECOMMUNICATIONS SERVICE, INCLUDING DATA TRANSMISSION. (ALSO UNDER 3.2.1)

- MAKIND, YASUD, DATA COMMUNICATION IN JAPAN, (MINISTRY DF ROSTS AND TELECOMMUNICATIONS, TOKYO, (JARAN)), WINKLER, STANLEY, COMPUTER COMMUNICATIONS: IMPACTS AND IMPLEMENTATION. THE FIRST INTERNATIONAL CONFERENCE ON COMPUTER COMMUNICATION, (WASHINGTON, OC, OCTOBER 24-26, 1972), INTERNATIONAL CONFERENCES ON COMPUTER COMMUNICATION, 1972, ICCC 72-CHO-090-DC, NSF GJ=3323S, P B-16 (ANDTATICN UNDER 1+2)
- MASSY, WILLIAM F., NETWORK ECONOMICS AND FUNDING. REPORT OF WORKSHOR 12, (STANFORD UNIV., CA). GREENEERGER, MARTIN, JULIUS ARONOFSKY, JAMES L. MCKENNEY, WILLIAM F. MASSY, NETWORKS FOR RESEARCH AND EDUCATION: SHARING COMPUTER AND INFORMATICN RESOURCES NATIONWIDE. MIT PRESS, CAMBRIDGE, MA. 1973, P 385-402, I REFS (ANDIATION UNDER 5.3)
- MATHISON, STUART L., RHILIP M. WALKER, REGULATORY AND ECONOMIC ISSUES IN Nëwhan Inc., Cambridge, maj, Proceedings of the Ieee, Vol 60, Issue 11, NOV 72, p 1254-1272, 18 refs RHILIP M. WALKER, REGULATORY AND ECONOMIC ISSUES IN COMPUTER COMMUNICATIONS. (BOLT, BERANEK AND

IN A TUTDRIAL FASHION, THE REGULATORY RROCESS OF COMPUTER COMMUNICATIONS IS DISCUSSED AND RELATED ISSUES ARE RAISED, SOME EXCELLENT INSIGHT IS RRDVIDED TO THE CONTROVERSIES ASSOCIATED WITH HYBRID SERVICES AND SRECIALIZED COMMON CARRIERS. THE AUTHORS RROPDSE THE ESTABLISHMENT OF A NEW CLASS OF COMMUNICATIONS COMMON CARRIER CALLED A 'CONTRACT CARRIER'. CONTRACT CARRIER WOULD PROVIDE SERVICE UNDER INDIVIDUAL AGREEMENTS WITH ORGANIZATIONS, AN GRERATING RERMIT FROM A REQULATORY AGENCY WOULD BE REQUIRED, BUT THE CONTRACT CARRIER WOULD NOT NEED TO RROVE THAT RUBLIC NECESSITY REQUIRES HIS SERVICES, THUS DPERATING IN A MODE FREE OF CUMBERSDME REGULATORY CONTROL.

MATHISON, STUART L., RHILIP M. WALKER, THE REGULATION OF VALUE ADDED CARRIERS, (TELENET COMMUNICATIONS CORR,

WASHINGTON, DC). WASHINGTON, DC). FOURTH DATA COMMUNICATIONS SYMROSIUM. NETWORK STRUCTURES IN AN EVOLVING DRENATIONAL ENVIRONMENT, (DUEBEC CITY, (CANADA), OCTOBER 7-9, 1975), INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YORK, 1975, IEEE 75-CHIOOOI-7-DATA, R 3-1--3-5. 7 REES

TELENET COMMUNICATIONS CORPORATION IS DNE DF A SMALL NUMBER DF COMPANIES RECENTLY LICENSED BY THE FEGERAL COMMUNICATIONS COMMISSION TO DFFER SERVICE AS A VALUE-ADDED CARRIER (VAC). AT ABDUT THE SAME TIME AS THE VAC LICENSES WERE ISSUED THE FCC OPENED INDUITY INTO THE SHARED USE AND RESALE DF CCMMON CARRIER COMMUNICATION CHANNELS. IN THIS ARTICLE, TELENET ARGUES THAT WHILE IT IS NECESSARY AND RRORER FOR VACS TO BE REGULATED, CERTAIN REGUIREMENTS REGARDING RATE DF RETURN CALCULATIONS AND NEW SERVICE DFFERINGS ARE NOT ARPROPRIATE FOR THS TWE OF CARRIER, AND OWGHT TO BE RELAXED.

MELODY, WILLIAM H., INTERCONNECTION: IMRACT ON COMPETITION-CARRIERS AND REGULATION, (RENNSYLVANIA, UNIV. OF, RHILAOELPHIA),

NRILADELMIN,, COMPUTER COMMUNICATIONS: IMRACTS AND IMPLEMENTATION, THE FIRST INTERNATIONAL CONFERENCE ON COMMUTER CCMMUNICATION, (WASHINGTON, DC, DCTDBER 24-26, 1972), INTERNATIONAL CONFERENCES ON COMMUNICATION, 1972, ICCC 72-CHC-690-66, NSE 61-33239, R 435-432, 38 REFS

THE ISSUES OF INTERCONNECTION TO COMMON CARRIER FACILITIES ARE ADDRESSED. INCLUDING A HISTDRICAL PERSRECTIVE; CURRENT IMRLICATIONS; MARKET. CARRIER, AND REGULATORY RESRDISES; AND TECHNICAL STANDARDS AND ECONOMIC BARRIERS. ISSUE OF INTERCONNECTION IS COVERED IN OETAIL UNDER THE REMISE THAT IT IS AN AREA WHERE MONOROLY ROWER HAS FAR EXCEDED ANY POSSIBLE RATIONALIZATION ON THE BASIS OF TECHNOLOGICALLY OFTERMINED NATURAL MONOPOLY.

DDY, WILLIAM H., RELATIONS BETWEEN RUBLIC ROLICY ISSUES AND ECONOMIES OF SCALE, (RENNSYLVANIA, UNIV, OF RHILADELRHIA),

RHILADELRHIA), FALL, ARTHUR O., III. OIGEST OF THE CONFERENCE ON THE ECONOMIES DF SCALE IN TODAY'S TELECOMMUNICATIONS SYSTEMS, (MASHINGTON, OC, SERTEMBER 13, 1973), INSTITUTE DF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YORK, 1973, IEEE 73-CHD-830-0-SCALE, R 29-47, 14 REFS

THIS RAPER RRESENTS A THORDUGH EXAMINATION OF THE RELATION BETWEEN THE TECHNICAL ECONOMIC CONCERT OF FCONOMIES OF SCALE AND CURRENT RUBLIC POLICY ISSUES IN TELECOMMUNICATIONS, IT DISCUSSES ECONOMIES OF SCALE AND TELECOMMUNICATIONS RECULATION, AND DEVELORS THE THEORETICAL ECONOMIC CONCERT OF ECONOMIES OF SCALE IN CONTRAST TO CONCERTS OF SHORT RUN CARACITY UTILIZATION, ECONOMIES OF SRECIALIZATION AND ECONOMIES OF TECHNOLOGICAL CHANGE,

NORWODD, FRANK W., TELECOMMUNICATIONS PROGRAMS AFFECTING NETWORK DEVELORMENT, BECKER, JOSEPH, PROCEEDINGS OF THE CONFERENCE ON INTERLIBRARY COMMUNICATIONS AND INFORMATION NETWORKS, (WARRENTON, VA, SEPTEMBER 28-OCTOBER 2, 1970), AMERICAN LIBRARY ASSOCIATION, CHICAGO, IL, 1971, OEC 0-9-230288-4235(095), (LC 70-18596), P 59-68, 24 REFS (ANNDTATION UNDER 1.2)

SELWYN, LEE L., ECONDMIES OF SCALE IN COMPUTER USE: INITIAL TESTS AND IMPLICATIONS FOR THE COMPUTER UTILITY, MASSACHUSETTS INST. DF TECH., CAMBRIDGE, RROJECT MAC, JUN 70, MIT-MAC TR-68, NONR 4102(01), IAD-710-011), IIGR, IO REFS

THE STUDY ADDRESSES, AS A POSSIBLE BASIS FOR REGULATION OF COMPUTER SERVICES, THE EXISTENCE OF SIGNIFICANT ECONDIES OF SCALE IN THE RROUCTION OF SUCH SERVICES, AN ANALYSIS MADE OF DATA ON NEARLY 10.000 COMPUTERS INSTALLED AT FIRMS IN MANUFACTURING INNOSTRIES, SUGGESTED THAT USERS OID DRERATE COMPUTERS AS IF THERE WERE SIGNIFICANT ECONDMIES OF SCALE IN THEIR USE. THE AUTHOR CONCLUCES BY SUGGESTING THAT PUBLIC ROLICY BE DIRECTED TOWARD REDUCTION OF BARFIERS THAT TEND TO RREVENT USE OF LARGE SYSTEMS BY GROUPS OF SMALL USERS. HOMEVER THE COSTS ASSOCIATED WITH

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MULTI-USER SHARING OF LARGE SYSTEMS MUST BE LESS THAN THE ADVANTAGES ASSOCIATED WITH USING THEM. ALSO UNDER S.3)

SIMONSON, W. E., COMMUNICATION NEEDS OF REMOTELY ACCESSED COMPUTER, (SOUTHERN CALIFORNIA, UNIV. OF, LOS ANGELES), AFIPS PROCEEDINGS. 1967 FALL JOINT COMPUTER CONFERENCE. VOLUME 31, (ANAMEIM, CA, NOVEMBER 14-16, 1967), THOMPSON BOOK CO., WASHINGTON, CC, 1967, AFIPS CONFERENCE PROCEEDINGS, (LC 55-44701), P S22-S23

THIS SHORT PAPER DEVELOPS THE THESIS THAT REGULATION SHOULD BE AIMED AT CREATING AND MAINTAINING A COMPETITIVE

VON BAFYER, HANS, THE QUEST FOR PUBLIC POLICIES IN COMPUTER/COMMUNICATIONS--CANADIAN APPROACHES, (FEDERAL GOVERNMENT CANADA, OTTAWA),

The SECOND INTERNATIONAL CONFERENCE ON COMPUTER COMMUNICATION, COMPUTER COMMUNICATION TODAY AND UP TO 1985, (STOCKHOLM, (SWEDEN), AUGUST 12-14, 1974), INTERNATIONAL COUNCIL OF ICCC, 1974, P 19-24

COMPUTER COMMUNICATIONS IMPACTS THE SOCIETAL INSTITUTIONS OF EVERY COUNTRY. IT IS THE RESPONSIBILITY OF PARTICULAR Countries to deal with this technology, utilize it in the best manner to meet society meeds and integrate it into the Structure of society. Yon backer investigates types of policies and explains the canadian approach to the ouest for public PCLICIES .

ILKER, PHILIP M., STUART L. MATHISON, REGULATORY POLICY AND FUTURE DATA TRANSMISSION SERVICES. (TELENET COMMUNICATIONS CORP., WALTHAM, MA), ABRAMSCA, NORMAN, FRANKLIN F. KUO, COMPUTER-COMMUNICATION NETWORKS, PRENTICE-HALL INC., ENGLEWOOD CLIFFS, NJ, 1973, COMPUTER APPLICATIONS IN ELECTRICAL ENGINEERING SERIES, (TKSI02.5.4283), P 295-370, 13 REFS WALKER, PHILIP

AS COMMUNICATION SERVICES AVAILABLE FOR TRANSMISSION OF DATA EXPAND, ADDITIONAL SERVICES WILL BE MADE AVAILABLE BY COMMON CARRIERS, SUCH AS THE TELEPHONE COMPANIES AND WESTERN UNION; BUT ALSO NEW COMMON CARRIERS WILL EVOLVE. THIS PAPER DESCRIBES PRESENT AND PLANNED DATA TRANSMISSION SERVICES PROVIDED BY COMMON CARRIERS, THE EMERGENCE OF NEW DATA ORIENTED CARRIERS AND THE VARIOUS POLICY CONSIDERATIONS AFFECTING COMMON CARRIERS.

S.S STANDAROS

- EARBER, D. L. A., EASING THE INTRODUCTION OF A PACKET SWITCHING SERVICE, NATIONAL PHYSICAL LAB., TEDDINGTON, (ENGLAND), DIV. CF COMPUTER SCIENCE, MAR 71, NPL-CSD COM-SCI-T+M.+52, 20P (ANNOTATION UNDER 3.3.1)
- EARBER, O. L. A., EXPERIENCE WITH THE USE OF THE B.S. INTERFACE IN COMPUTER PERIPHERALS AND COMMUNICATION SYSTEMS, NATIONAL PHYSICAL LAB., TEDDINGTON, (ENGLAND), DIV. OF COMPUTER SCIENCE, DCT 69, NPL-DCS COM-SCI-T.M.29, ISP, 9 REFS (ANNOTATION UNCER 3.3.1)
- BHUSHAN, ABHAY K., ROBERT H. STOTZ, PROCEDURES AND STANDAROS FOR INTER-COMPUTER COMMUNICATIONS, (MASSACHUSETTS INST. OF TECH., CAMBRIDGE, ELECTRONICS SYSTEMS LAB.), AFIPS PROCEEDINGS, 1968 SPRING JOINT COMPUTER CONFERENCE, VOLUME 32, (ATLANTIC CITY, NJ, APRIL 30-MAY 2, 1968), THOMPSON BOCK CO., WASHINGTON, OC, 1968. AFIPS CONFERENCE PROCEEDINGS, (LC 55-44701), P 95-104, 24 REFS (ANNOTATION UNDER 3.5.1)
- ECNN, THEDDORE H., A STANDARD FOR COMPUTER NETWORKS, (SPERRY RAND RESEARCH CENTER, SUDBURY, MA, DIGITAL TECHNIQUES CEMPUTER, VOL 4, MAY-JUN 71, P IO-14, 3 REFS

THIS BRIEF DESCRIPTION OF STANDARDS EFFORTS RELATING TO COMPUTER NETWORK DEVELOPMENT AND USE INCLUDES A STATEMENT OF DEJECTIVES OF SUCH EFFORTS IN ADDITION TO CALLING FOR GOVERNMENT SUPPORT OF STANDARDS DEVELOPMENT ACTIVITIES AND A "REGISTER" OF DE FACTO STANDARDS.

EGNN, THEODORE H., STANDARDS AND INTERCONNECTION, (HONEYWELL INC., WALTHAM, MA), INTERDISCIPLINARY CONFERENCE ON MULTIPLE ACCESS COMPUTER NETWORKS, (AUSTIN, TX, APRIL 20-22, 1970), APR 70, P 4-3-1--4-3-8

THE OBJECTIVES AND IMPLICATIONS OF STANDAROIZATION IN GATA TRANSFER, SYSTEM CONTROL, AND GATA BASE GEFINITION FOR COMPUTER NETWORKS ARE CUTLINED. SOME OF THE ORGANIZATIONAL AND POLITICAL PROBLEMS OF STANDAROIZATION ARE WELL OE SCR IBED .

CTTON, IRA W., JOHN W. BENOIT, PROSPECTS FOR THE STANDARDIZATION OF PACKET-SWITCHED NETWORKS, (NATIONAL BUREAU OF STANDARDS, WASHINGTON, OC, INST. FOR COMPUTER SCIENCES AND TECHNOLOGY, MITRE CORP., MCLEAN, VA), FOURTH DATA COMMUNICATIONS SYMPOSIUM, NETWORK STRUCTURES IN AN EVOLVING OPERATIONAL ENVIRONMENT, (QUEBEC CITY, (CANADA), OCTOBER 7-09, 1975), INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YORK, 1975, IEEE 75-CHIDODI-7-DATA, P 2-I--2-7, S REFS CCTTON, IRA W.,

PACKET SWITCHED NETWORKS (PSNS) HAVE EXISTED IN AN EXPERIMENTAL FORM FOR SOME TIME, AND THERE ARE A NUMBER OF COMMERCIAL SYSTEMS IN VARIOUS STAGES OF DEVELOPMENT, HOMEVER, THERE IS A NEAR TOTAL LACK OF COMMONALITY IN THE DESIGN OF THESE NETWORKS. AS THE EVENTUAL INTERCONNECTION OF NETWORKS IS INEWICATION OF MANY AREAS IN WHICH VOLUNTARY STANDARDIZATION MIGHT BE USEFUL TO BOTH THE OPERATORS AND THE USERS OF SUCH NETWORKS. IN THIS REPORT THE AUTHORS PRESENT THEIR OPINIONS ON THE FROSPECTS FOR THE STANDARDIZATION OF PACKET-SWITCHED NETWORKS.

DATAPAC STANDARD NETWORK ACCESS PROTOCOL, TRANS-CANADA TELEPHONE SYSTEM, COMPUTER COMMUNICATIONS GROUP, 30 NOV 74, SEP

THIS IS THE PRELIMINARY SPECIFICATION FOR A STANDARD NETWORK ACCESS PROTOCOL (SNAP) TO BE INPLEMENTED ON A CANADIAN PACKET SWITCHED NETWORK CALLED DATAPAC BY JULY 1976. THE PURPOSE OF THIS PROTOCOL IS TO PROVIDE USERS WITH A STANDARD METHOD OF ACCESS TO ALL OF THE FEATURES OF THE DATAPAC NETWORK. (ALSO UNDER 3.5.1)

CUNN, DONALD A., CARSON E. AGNEW, ECONOMICS OF INTERNATIONAL STANDARDS FOR COMPUTER COMMUNICATION, (STANFORD, UNIV. OF, CA, OEPT. OF ENGINEERING-ECONOMIC SYSTEMS), THE SECOND INTERNATIONAL CONFERENCE ON COMPUTER COMMUNICATION. COMPUTER COMMUNICATION TODAY AND UP TO 1985, (STOCKHOLM, (Sweden), AUGUST 12-14, 1974), INTERNATIONAL COUNCIL OF ICCC, 1974, P 295-298, 6 REFS (ANNOTATION UNDER 5.3)

FIFE, DENNIS W., STANDARDS ANALYSIS FOR FUTURE WWMCCS COMPUTER NETWORKING, NATIONAL BUREAU OF STANDARDS, WASHINGTON, DC. SYSTEMS AND SOFTWARE DIV., 30 AUG 74, NBSIR 74-S70, IO7P, 30 REFS

THE WORLD WIDE MILITARY COMMAND AND CONTROL SYSTEM (WWMCCS) IS PLANNED TO INCLUDE AN INTERCOMPUTER NETWORK BASED ON ARPANET TECHNOLOGY. THIS REPORT WAS PREPARED TO SUPPORT FLANNING FOR SUCH A NETWORK. TOPICS COVERED INCLUDE A MODEL AND FUNCTICNAL ANALYSIS OF A WWMCCS COMPUTER NETWORK, ANALYSIS OF COMMUNICATIONS DISCIPLINES, AND DISCUSSIONS OF THE FEASIBILITY OF COMMON SOFTWARE AND USER-DRIENTED NETWORK PROTOCOLS. SOME OF THE DISCUSSION IS DUITE SPECIFIC TO THE WWMCCS SYSTEMS; HOWEVER, MUCH OF THE DISCUSSION IS READILY GENERALIZED TO CTHER NETWORKS.

FITZSTMONS, THOMAS F., ASCIT EXTENSION AND EXPANSION AND THEIR IMPACT ON DATA COMMUNICATIONS, (BELL TELEPHONE LABS,

IZSIMUNS, HOMAS F., ASCII EXTENSION AND EXFANSION AND INELK IMPACT UN DATA COMMUNICATIONS, (BELL TELEPHONE LABS, Inc., Piscatamay, NJ), Jackson, Peter E., Proceedings, Achyleee second symposium on problems in the optimization of data communication systems, (Palo Altc. CA, October 20-22, 1971), 1971, IEEE CAT-71C59-C, P 73-70

PROPOSED ASCII-RELATED STANDARDS FOR COMPUTER-COMMUNICATIONS ARE DISCUSSED. THE HISTORY OF THE EFFORT, THE CURRENT PROPOSALS, AND THE POTENTIAL IMPACT ON DATA COMMUNICATION ARE INTRODUCED. PARTICULAR ATTENTION IS GIVEN TO VARIOUS PROPOSALS FOR EXTENSIONS OF THE ASCII CODE.

HARGRAVES, ROBERT F., JR., THOMAS E. KURTZ, THE DARTMOUTH TIME SHARING NETWORK, (DARTMOUTH COLLEGE, MANDVER, NH), ABRAMSON, NORMAN, FRANKLIN F. KUO, COMPUTER-COMMUNICATION NETWORKS, PRENTICE-HALL INC., ENGLEWOOD CLIFFS, NJ, 1973, COMPUTER APPLICATIONS IN ELECTRICAL ENGINEERING SERIES, (TKS102-SSA2B31, P 423-456 (ANNOTATION UNDER 3. 1.0)

LITTLE, JOHN L., CALVIN N. MODERS, STANDARDS FOR USER PROCEDURES AND DATA FORMATS IN AUTOMATED INFORMATION SYSTEMS AND

S.5 STANDARDS

NETWORKS, (NATIONAL BUREAU DE STANDARDS, WASHINGTON, OC, ROCKFORD RESEARCH INST., CAMBRIDGE, MA), AFIPS PROCEEDINGS, 1968 SPRING JOINT COMPUTER CONFERENCE, VOLUME 32, (ATLANTIC CITY, NJ, APRIL 30-BOOK CC., WASHINGTON, OC, 1968, AFIPS CONFERENCE PROCEEDINGS, (LC S5-44701), P B9-94, A REFS APRIL 30-MAY 2, 1968), THOMPSON

*DNCE A TELEPHONE CONNECTION TO A REMOTE AUTOMATED STDRAGE UNIT AND PROCESSOR UNIT HAS BEEN ESTABLISHED, THE USER IS ABSOLUTELY HELPLESS UNLESS HE IS THOROUGHLY FAMILIAR WITH THE PARTICULAR KEYBOARD RITUALS AND INCANTATIONS REQUIRED TO ELICIT PERFORMANCE FROM THE SPECIFIC REMOTE MACHINE** THE PUPPOSE OF THE PAPER, THEN, IS TO ATTEMPT TO AMELODATE THE SITUATION BY THE DEVELOPMENT OF STANDARDS FOR USER CONTROL PROCEDURES AND FOR DATA FORMATS TO BE USED IN AUTOMATED INFORMATION METYMORKS, ELEMENTAL LOGICAL CONTROL ACTIONS FOR A USER ENTERING AN AUTOMATED TO AMELODATE INFORMATION METYMORKS, ELEMENTAL LOGICAL CONTROL ACTIONS FOR A USER ENTERING AN AUTOMATED INFORMATION SYSTEM ARE CONTROLLING AND IT IS SUGGESTED THAT THEY CAN BE STANDARDIZED AS TO FUNCTION AND CAN BE GIVEN STANDARD KEYBOARD ASSIGNMENTS .

MAKING, YASUD, PERSPECTIVES ON DATA COMMUNICATION IN JAPAN, (NTT PUBLIC CORP., TOKYO, (JAPAN)), THE SECONO INTERNATIONAL CONFERENCE ON COMPUTER COMMUNICATION, COMPUTER COMMUNICATION TODAY AND UP TO 1985, (STOCKHOLM, (SWEDEN), AUGUST 12-14, 1974), INTERNATIONAL COUNCIL OF ICCC, 1974, P 25-30 (ANNOTATION UNDER 5-0)

SOFTWARE SYSTEMS AND OPERATING PROCEDURES. REPORT OF WORKSHOP IO, (HARVARD UNIV,, CAMBRIDGE, MA, JAMES L. *CKENNEY . GRADUATE SCHOOL OF DUSINESS AD GUENTING FOLLOUFES, RECOVERS, RECOVERS FOR GUENTING TON, GRADUATE SCHOOL OF BUSINESS AD GANINISTRATION). GREEMBERGER, MARTIN, JULIUS ARRNOFSKY, JAMES L. MCKENNEY, WILLIAH F. MASSY, NETWORKS FOR RESEARCH AND EDUCATION: SHARING COMPUTER AND INFORMATION RESOURCES NATIONNICE, MILT PRESS, CAMBRIDGE, MA. 1973, P. 365-372, I. REFS (ANNOTATION UNDER 3.0)

WCRENOFF, EDWARD, THE TRANSFERABILITY OF COMPUTER PROGRAMS AND THE DATA ON WHICH THEY OPERATE, (ROME AIR DEVELOPMENT CENTER, GUIRETISS AFG. NY), AFIFS PROCEEDINGS. 1969 SPRING JOINT COMPUTER CONFERENCE: VOLUME 34, (BOSTON, MA, MAY 14-16, 1969), AFIPS PRESS, MONTVALE, NJ, 1969, AFIPS CONFERENCE PROCEEDINGS, (LC SS-44701), P 609-610, B REFS (ANOTATICN UNDER 4.1-0)

UMANN, A. J.. A BASIS FOR STANDARDIZATION OF USER-TERMINAL PROTOCOLS FOR COMPUTER NETWORK ACCESS, NATIONAL BUREAU OF STANDARDS, WASHINGTON, OC, SYSTEMS AND SOFTWARE DIV., JUL 75, NBS TN-B77, (LC 75-600052), 29P, S REFS NEUMANN & A. J...

SOME OF THE USER PROTOCOLS, ESPECIALLY THOSE USED IN CONNECTION WITH COMPUTER NETWORKS, CAN BE DUITE COMPLEX AND DIFFICULT TO USE FOR THE CASUAL USER. THUS. USER PROTOCOLS NEED TO BE DESIGNED AND STANDARDIZED FOR A WIDE VARIETY OF

PEOPLE. THE PURPOSE OF THIS PAPER IS TO ESTABLISH A BASIS FOR STANDARDIZATION AND DEVELOPMENT OF A UNIFIED USER PROTOCOL. (ALSO UNDER 3.5.2: 2.3)

UMANN, A. J., USER PROCEDURES STANGARDIZATION FOR NETWORK ACCESS, NATIONAL BUREAU OF STANDARDS, WASHINGTON, OC, SYSTEMS DEVELOPMENT DIV., OCT 73, NBS TN-799, NSF AG-350, 43P, 10 REFS

USER ACCESS PROCEDURES TO INFORMATION SYSTEMS HAVE BECOME OF CRUCIAL IMPORTANCE WITH THE ADVENT OF COMPUTER NETWORKS, WHICH HAVE OPENED NEW TYPES OF RESOURCES TO A BROAD SPECTRUM OF USERS. THIS REPORT SURVEYS USER ACC PROTOCOLS OF SIX REPRESENTATIVE SYSTEMS. FUNCTIONAL ACCES REQUIREMENTS ARE DUTLINED, AND IMPLEMENTATION OF ACCESS PROCEDURES IS ANALYZED BY MEANS OF A COMMON METHODOLDGY. ACCESS OUALITATIVE ASSESSMENT OF STANDARDIZATION POSTBILITIES IDENTIFIES STANDARDIZATION CANDIDATES SUCH AS: SYSTEM AND USER SIGNALS, ON-LINE USER ENTRIES, SYSTEM REQUESTS, AND NETWORK WIDE CATEGORIES OF MESSAGE CONTENT. (ALSO UNDER 2.3)

PECK, PAUL L., THE IMPLICATIONS OF ADP NETWORKING STANDARDS FOR OPERATIONS RESEARCH, MITRE CORP., BEDFORD, MA. JUN 69, MC MTP-333, AF F1962B-6B-C-0365, (AO-696 675), ISP, S REFS (ANNOTATION UNDER I.I)

PDUZIN, LOUIS, STANGARDS IN GATA COMMUNICATIONS AND COMPUTER NETWORKS, (INSTITUT DE RECHERCHE G'INFORMATIQUE ET D'AUTOMATIQUE (IRIA), (FRANCE)), FOURTH DATA COMMUNICATIONS SYMPOSIUM, NETWORK STRUCTURES IN AN EVOLVING DPERATIONAL ENVIRONMENT, (QUEBEC CITY, (CANAGA), DCTOBER 7-9, 1975), INSTITUTE DF ELECTRICAL ANG ELECTRONICS ENGINEERS INC., NEW YORK, 1975, IEEE 75-CHIGOOI-7-DATA, P 2-69-2-12, 10'REFS

IN THIS PAPER THE AUTHOR FIRST DISCUSSES SYSTEM STANDARDS NEEDED TO OFFER USERS UNDUSTRUCTIVE ACCESS TO RESOURCES DISTRIBUTED DVER INTERCONNECTED, HETEROGENEOUS NETWORKS. THEN HE CONSIDERS A NUMBER OF LESS TECHNICAL ASPECTS RELATED TO STANDARDIZATION ISSUES.

ROSENBLUM, STANLEY R., PROGRESS IN CONTROL PROCEDURE STANDARDIZATION, (HONEYWELL INFORMATION SYSTEMS INC., FRAMINGHAM,

MA). JACKSCN, PETER E., PROCEEDINGS. ACM/IEEE SECOND SYMPDSIUM ON PROBLEMS IN THE OPTIMIZATION OF DATA COMMUNICATION SYSTEMS. (PALD ALTC, CA, DCTDBER 20-22, 1971), 1971, IEEE CAT-71CS9-C, P 153-IS9, 2 REFS

STANDARDIZATION OF DATA COMMUNICATIONS CONTROL PROCEDURES IS DISCUSSED. A BRIEF HISTORY AND DESCRIPTION OF THE PHILOSOPHY OF CHARACTER-ORIENTED CONTROL PROCEDURES IS GIVEN. A PROPOSAL IS THEN PRESENTED FOR A BIT-DRIENTED CONTROL PROCEDURE. THIS PROCEDURE ALLOWS FOR LINK TRANSMISSION WITH A FORMAT INVARIANT EXCEPT FOR THE PRESENCE OR ABSENCE OF AN EXTENSION FIELO. THE EXTENSION MECHANISM HAS NOT BEEN DEFINEO. (ALSO UNDER 3.5.1)

SCHUTZ, GERALD C., GEDRGE E. CLARK, JR., DATA COMMUNICATION STANDAROS, (OFFICE OF THE SECRETARY OF TRANSPORTATION, WASHINGTON, OC, OFFICE OF SYSTEMS ENGINEERING, NATIONAL BUREAU OF STANDARDS, WASHINGTON, DC, DATA ACOUISITION AND WASHINGTON. OC. O STORAGE SECTION). CEMPUTER, VOL 7, ISSUE 2, FEB 74, P 32-37, S REES

IF YOU HAVE A DUESTION CONCERNING STANDAROS RELATED TO COMMUNICATIONS AND/OR COMPUTERS, THIS ARTICLE WILL POINT YOU The appropriate committee, the authors also indicate current concerns in the world of standards, and list approved TO THE AND RECOMMENCED STANDAROS.

STAFFORC, SAMUEL, SERIOUS COMPATIBILITY PROBLEMS IN COMPUTER NETWORKING CHALLENGE NBS, INDUSTRY, GOVERNMENT EXECUTIVE, VOL 3, ISSUE 7, JUL 71, P 64-66

BASED ON COMMENTS BY OR, RUTH DAVIS OF THE NATIONAL BUREAU OF STANDAROS, THIS ARTICLE HIGHLIGHTS THE PROBLEMS OF IMPROVING NETWORKS IN TERMS OF COST-EFFECTIVENESS AND COMFORTABLE USE BY CUSTOMERS. COMPATIBILITY PROBLEMS AND STANDARDIZATION EFFORTS ARE DISCUSSED AND CLARIFIED. INADEQUATE REPRESENTATION ON STANDARDIS COMMITTEES AND THME LAGS BETWEEN DECISICNS ON STANDARDIZATION AND IMPLEMENTATION ARE TWO SERIOUS PROBLEMS, FURTHER IT IS STATED THAT A FEDERAL COMMUNICATIONS COMMISSION RULING ALLOWING COMPETITION IN DIGITAL DATA TRANSMISSION WILL BE IMPORTANT FROM THE STANDPOINT OF INTRODUCING LOWER-COST COMMUNICATIONS.

STEVENS, MARY ELIZABETH, COMPATIBILITY PROBLEMS OF NETWORK INTERFACING, (NATIDNAL BUREAU OF STANDAROS, WASHINGTON, OC. CENTER FCR COMPUTER SCIENCES AND TECHNOLOGY), BECKER, JOSEPH, PROCEEDINGS OF THE CONFERENCE ON INTERLIBRARY COMMUNICATIONS AND INFORMATION NETWORKS. (WARRENTON, VA. SEPTEMBER 28-OCTOBER 2. 1970), AMERICAN LIBRARY ASSOCIATION, CHICAGO, IL, 1971, OEC 0-9-230208-4235(095), (LC 70-18596),

P 202-212, 49 REFS

THIS REPORT IDENTIFIES A POTPOURRE OF PROBLEMS AND DUESTIONS CONCERNING COMPATIBILITY AT THE VARIOUS INTERFACES ASSOCIATED WITH A NETWORK BROADLY CLASSIFIED AS MACHINE-MACHINE AND MAN-MACHINE PROBLEMS, SURFACE OF A LARGE NUMBER OF PROBLEMS, BUT IS WEAK WHEN IT COMES TO USEFUL SOLUTIONS. THIS REPORT SCRATCHES THE

STEVENS, MARY ELIZABETH, STANDARDIZATION, COMPATIBILITY AND/OR CONVERTIBILITY REOUIREMENTS IN NETWORK PLANNING, NATIONAL EUREAU OF STANDARDS, WASHINGTON, OC, CENTER FOR COMPUTER SCIENCES AND TECHNOLOGY, MAY 70, NBS REPORT IO-252, NBS 6006400, (PB-154 179), 249P, 469 REFS

STANDARDIZATION REQUIREMENTS RELATIVE TO A PPOPOSED BIOMEDICAL COMMUNICATIONS NETWORK ARE CONSIDERED, THIS VERY COMPLETE DOCUMENT COVERS THE AREAS OF APPLICABILITY OF STANDARDS, INFORMATION CONTROL REQUIREMENTS, AND MANAGEMENT CCNTROL REDUIREMENTS, THIS INFORMATION SHOULD BE USEFUL TO ALL NETWORK DESIGNERS AND PARTICIPANTS. THIS VERY

WHITE, GEORGE W., MESSAGE FORMAT PRINCIPLES, (NATIONAL COMMUNICATIONS SYSTEM, WASHINGTON, DC), JACKSDN, PETER E., PROCEEDINGS, ACM/IEEE SECOND SYMPOSIUM ON PROBLEMS IN THE DPTIMIZATION OF DATA COMMUNICATION SYSTEMS, (FALD ALTC, C.A. OCTOBER 20-22, 1971), 1971, IEEE CAT-71CSS-C, P 192-198, 3 REFS (ANNOTATION UNDER 3.5.2)

EARAN, PAUL, ON DISTRIBUTED COMMUNICATIONS: IX. SECURITY, SECRECY, AND TAMPER-FREE CONSIDERATIONS, RAND CORP., SANTA MONICA, CA, AUG 64, RC RM-3765-PR, AF 49(638)-700, (A0-44 839), 39P, 3 REFS

THIS REPORT DESCRIBES A NUMBER OF TECHNIQUES THAT CAN ASSURE SECURITY OF DATA TRANSMISSION IN A DISTRIBUTED MESSAGE SWITCHED NETWORK. ALTHOUGH INTENDED AS AN OPEN DISCUSSION OF MATERIAL PARTICULARLY RELEVANT FOR MILITARY SECURITY APPLICATIONS. THE METHODS FOR ASSURING ADEQUACY AND EFFECTIVENESS OF CONTROLS ON DATA ACCESSIBILITY ARE ALSD OF POTENTIAL INTEREST IN MANY APPLICATIONS OF NON-MILITARY RESDURCE SHARING COMPUTER NETWORKS. TECHNIQUES PROPOSED IN THIS REPORT INCLUOE CONVENTIONAL CRYPTOGRAPHIC TECHNIQUES THAT CAN BE IMPLEMENTED IN THE MESSAGE SWITCHED NETWORK ITSLEF. IN ADDITION TO PROPOSING THE INTPODUCTION OF FRAUDULENT TRAFFIC, THE REPORT ALSO MENTIONS A FEW TECHNIQUES SUCH AS TRANSMISSION OF SUCCESSIVE MESSAGE BLOCKS BY EVER CHANGING OR CONTINUOUSLY CHANGING PATHS AS AN EXAMPLE OF THOSE TECHNIQUES PARTICULARLY APPLICABLE TO THIS TYPE OF NETWORK,

ERANSTAD, DENNIS K., ENCRYPTION PROTECTION IN COMPUTER DATA COMMUNICATIONS, INATIONAL BUREAU OF STANDARDS, WASHINGTON, OC, SYSTEMS AND SOFTWARE OIV.), FOURTH DATA COMMUNICATIONS SYMPOSIUM, NETWORK STRUCTURES IN AN EVOLVING OPERATIONAL ENVIRONMENT, (QUEBEC CITY, ICANADA), DCTDDER 7-9, 1975), INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YORK, 1975, IEEE 75-CH10001-7-DATA, P 8-1--E-7, 2 REFS

ENCRYPTION CAN BE AN EFFECTIVE PROCESS FOR PROTECTING DATA OURING TRANSMISSION WITHIN DISTRIBUTED COMPUTER SYSTEMS AND NETWORKS. ADDITIONAL SECURITY REQUIREMINS MAY BE SATISFIED BY COMBINING ENCRYPTION TECHNOLOGY WITH A NETWORK ACCESS CONTROL MACHINE IN A NETWORK SECURITY CENTER. THIS PAPER PRESENTS AN ENCRYPTION ALGORITHM FOR USE IN COMPUTER DATA COMMUNICATIONS AND THE SECURITY REQUIREMENTS THAT ARE SATISFIED BY POPER USE DF THE ALGORITHM. ALSO DISCUSSED IS THE USE OF A NETWORK ACCESS CONTROL MACHINE TO ENFORCE ACCESS RESTRICTIONS TO THE NETWORK.

BRDADMAN, IRA S., PROTECTION TECHNIQUES IN DATA PROCESSING SYSTEMS TO MEET USER DATA SECURITY NEEDS, IINTERNATIONAL BODDMAN, IRA S., PROTECTION TECHNIQUES IN DAIA PHOLESSING SYSTEMS TO MEET USEM UATA SECURITY NEEDS, IINTERNATIONAL Business Machines Corpe, GaithersBurg, Ad). The Secong International Conference on Computer Communication, Computer Communication Today and up to 1985, (Stockholm, (Sweden), August 12-14, 1974), International Council of Iccc, 1974, p 485-489, 2 Refs

THE AUTHOR CONCENTRATES ON TECHNOLOGY BASED METHODS TO PROTECT INFORMATION STORED AND REFERENCED IN DATA PROCESSING EDUIPMENT. EQUIPMENT, TRUE SECURITY METHODS ARE PRESENTED AND IMPLEMENTATION OF THESE IS REVIEWED AS A SERIES OF PARALLEL FENCES OF INFINITE LENGTH AND HEIGHT SURROUNDING THE DATA. SUCCESSFUL ACCESS IS ACHIEVED DNLY BY PASSING THRDUGH THE FIVE GATES.

BROWNE, PETER S., SECURITY IN COMPUTER NETWORKS, (GENERAL ELECTRIC CO., BETHESDA, MD. INFORMATION SERVICES BUSINESS

DIV.). RENNINGER. CLARK R., APPROACHES TO PRIVACY AND SECURITY IN COMPUTER SYSTEMS, (GAITHERSBURG, MD, MARCH 4-S, 1974), SEP 74, NBS SP-404, P 32-37

AS NETWORKS PROLIFERATE AND NETWORK UTILIZATION INCREASES, SECURITY IS BECDMING AN EVER GREATER CONCERN AMONG BOTH USERS AND PROVIDERS OF SERVICE, THIS ARTICLE IS A GOOD DVERVIEW OF THE ISSUES FACED IN PROVIDING SECURITY IN NETWORK SYSTEMS, THE SPECIAL PROBLEMS WHICH NETWORKS POSE TO SECURITY PLANNERS ARE RAISED, BUT SOME SPECIAL AUVANTAGES WHICH NETWORKS OFFER IN IMMLEMENTING SECURITY SYSTEMS ARE ALSO DOENTIFIED, SPECIFIC SECURITY SYSTEMS ARE NOT DESCRIBED IN DETAIL, BUT THE PROBLEMS AND APPRDACHES TO THEIR SOLUTIONS ARE WELL DUTLINED.

PAUL MEISSNER, APERDACHES TO CONTROLLING PERSONAL ACCESS TO COMPUTER TERMINALS. INATIONAL BUREAU DE COTTON. IRA W. TIDM, IRA **, PAGE MEISSNER, AFTORACHES IE CUMINGLEING FERSUNAL ACCESS ID CUMPOTER TERMINALS, THATIDNAL BONEAU STARDARDS, WASHINGTON, OC, INST. FOR COMPUTER SCIENCES AND TECHNOLOGY). PROCEEDINGS OF THE 1975 SYMPOSIUM-COMPUTER NETWORKS: TRENDS AND APPLICATIONS, (GAITHERSBURG, MD, JUNE 18, 1975), INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YORK, 1075, TSCH0973-BC, P 32-39, 14 REFS

THIS PAPER DISCUSSES APPROACHES TO CONTROLLING PERSONAL ACCESS TO COMPUTER TERMINALS. THE EMPHASIS IS ON APPROACHES RATHER THAN SPECIFIC DEVICES. IT EXPLAINS HOW DEVICES CAN BE COMPARED, AND INTRODUCES A SYSTEMATIC SET DE CRITERIA THAT CAN BE USED IN PERSONAL IDENTIFICATION SYSTEM EVALUATION AND/OR COMPARISON.

FARBER, CAVID J., KENNETH C. LARSDN, NETWORK SECURITY VIA DYNAMIC PROCESS RENAMING, (CALIFORNIA, UNIV. DF, IRVINE, DEPT. DF INFORMATION AND COMPUTER SCIENCE), FOURTH DATA COMMUNICATIONS SYMPDSIUM. NETWORK STRUCTURES IN AN EVOLVING DPERATIONAL ENVIRONMENT. (QUEBEC CITY, (CANADA), DCTOBER 7-9, 1975), INSTITUTE DF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YORK, 1975, IEEE 7S-CHI0001-7-DATA, P 8-13--8-10, 3 REFS

THIS PAPER PRESENTS A PROTOCOL DESIGNED TO DPERATE WITHIN A NETWORK CONSISTING DF REASONABLY SECURE HOSTS, SECURE COMMUNICATIONS PROCESSORS WHICH INTERFACE THE HOSTS TO THE NETWORK, AND HIGHLY VULNERABLE COMMUNICATIONS LINKS. THIS PROTOCOL IS CURRENTLY BEING IMPLEMENTED ON THE DISTRIBUTED COMPUTER SYSTEM AT THE UNIV. DF CALIFORNIA AT IRVINE. MODIFICATIONS MECESSARY TO ADAPT THE PROTOCOL TO THE ARPA NETWORK WILL BE STUDIED. (ALSO UNDER 3.S.D)

FARGER, DAVID J., KENNETH C. LARSON, THE STRUCTURE OF A DISTRIBUTED COMPUTING SYSTEM--SOFTWARE, (PRESENTED AT, SYMPOSIUM CN COMPUTER-COMMUNICATIONS NETWORKS AND TELETRAFFIC, 1972), CALIFORNIA, UNIV, OF, IRVINE, 1972, NSF GJ-1045, 17P, 2 REFS (ANNDIATION UNDER 3.4.0)

FLETCHER, JOHN G., OCTOPUS SDFTWARE SECURITY, ILAWRENCE LIVERMORE LA8,, LIVERMORE, CA), COMPCON 73 - SEVENTH ANNUAL IEEE COMPUTER SOCIETY INTERNATIONAL COMFERENCE, DIGEST OF PAPERS, *COMPUTING NETWORKS FROM HINIS THROUGH MAXIS -- ARE THEY FOR REAL?*, ISAN FRANCISCO, CA, FEGRUARY 27-28, MARCH 1, 1973), INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS INC., NEW YORK, 1973, (LC 68-1628), P 61-62, 1 REFS

FOR NETWORK SOFTWARE TO BE SECURE THREE DBJECTIVES MUST BE FULFILLED: ND UNWARRANTED ALTERATIONS OF THE SYSTEM, NO ACCESS TO FILES OTHER THAN THOSE ASSIGNED TO THE SPECIFIC USER, AND NO VIOLATION OF THE RULES REGARDING A HIERARCHIAL INFORMATION CLASSIFICATION SCHEME. THE AUTHOR PRESENTS THE DESIGN FEATURES OF THE COTOPUS SOFTWARE THAT ALLOW IT TO FULFILL THE THREE OBJECTIVES, BASICALLY, LIMITATION OF MEMDRY ACCESS, USE OF PASSWORDS, AND A FILE STRUCTURE FOR CLASSIFYING USE OF FILES. IALSO UNDER 3.4.9)

FREED, RDY N., PROTECTION OF PROPRIETARY SOFTWARE PROGRAMS IN THE UNITED STATES, (WIDETT AND WIDETT, BOSTON, MA), WINKLER, STANLEY, COMPUTER COMMUNICATIONS: IMPACTS AND IMPLEMENTATION. THE FIRST INTERNATIONAL CONFERENCE ON COMPUTER COMMUNICATION, (WASHINGTON, OC, OCTOBER 24-26, 1972), INTERNATIONAL CONFERENCES ON COMPUTER COMMUNICATION, 1972, ICCC 72-CHD-690-BC, NSF 6J-23239, P 403-408, 6 REFS

THIS IS A VERY INTERESTING DISCUSSION OF LEGAL TECHNIDUES FOR PROTECTING PROPRIETARY SOFTWARE FROM UNAUTHORIZED USE. PATENTING, COPYRIGHTING, TRADE SECRETS, LICENSING, LEASING, NON-DISCLOSURE COMMITMENTS, AND PROGRAM REGISTRATION ALL RECEIVE TREATMENT, GIVING A GOOD PERSPECTIVE OF THE PRESENT STATE OF LEGAL DEVELOPMENTS AND ISSUES. IALSO UNDER 3.4.9)

LIFNER. STEVEN 8., SECURE COMPUTER SYSTEMS FOR NETWORK APPLICATIONS, (MITRE CORP., BEOFORG, MA), FOURTH DATA COMMUNICATIONS SYMPOSIUM, NETWORK STRUCTURES IN AN EVOLVING DPERATIONAL ENVIRONMENT, IQUEBEC CITY, (CANADA), OCTOBER 7-9, 1975), INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YORK, 1975, IEEE 75-CHIQQOI-7-DATA, P B-8--8-12, 10 REFS

THIS PAPER SUMMARIZES A TECHNOLOGY THAT CAN DE USED TO DEVELOP SECURE COMPUTER SYSTEMS AND OUTLINES SOME DF ITS APPLICATIONS TO COMPUTER NETWORKS.

TURN. REIN. PRIVACY SYSTEMS FOR TELECOMMUNICATION NETWORKS, IRAND CORP., SANTA MONICA, CA), IEEE 1974 NATIONAL TELECOMMUNICATIONS CONFERENCE, ISAN DIEGO, CA, DECEMBER 2-4, 1974), INSTITUTE DF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YORK, 1974, IEEE P-74CH0902-7-CSC8, ILC S7-20724), P ISI-IS6, 26 REFS

THIS EXCELLENT TUTDRIAL ON TECHNIDUES THAT CAN BE USED TO PROVIDE COMMUNICATIONS SECURITY IN COMMERCIAL SYSTEMS SYSTEMATICALLY REVIEWS IN OULITATIVE TERMS THE PROTECTIVE CHAPACTERISTICS OF SEVERAL CLASSES OF ENCRYPTION TECHNIQUES. IT IS NOTED THAT THE LARGE VOLUME OF MESSAGE TRAFFIC IN COMMUNICATIONS NETWORKS MAY SIGNIFICANTLY REDUCE THE EFFECTIVENESS OF THE PRIVACY SYSTEM EMPLOYED. IMPLEMENTATION OF AN ENCRYPTION SYSTEM ON A LINK-BY-LINK BASIS USING LSI COMPONENTS IS RECOMMENDED FOR MODERN TELECOMMUNICATIONS NETWORKS SUCH AS THOSE BASED ON PACKET SWITCHING.

INKLER, STANLEY, DR., LEE DANNER, OATA SECURITY IN THE COMPUTER COMMUNICATION ENVIRONMENT, (INTERNATIONAL BUSINESS MACHINES CORP., GAITHERSBURG, MG. SYSTEM OEVELOPMENT DIV.), COMPUTER, VOL 7, ISSUE 2, FEB 74. P 23-31, 7 REF S

THE INCREASING APPLICATION OF COMPUTERS, NUMBER OF PERSONNEL TRAINED IN COMPUTER SCIENCE, AND THE AMDUNTS OF OATA STORED, MAYE LED TO THE INCREASED VULNERABILITY OF COMPUTER SYSTEMS TO SECURITY INVASION. THE AUTHORS CATEGORIZE ATTACKS

BIBLIDGRAPHY

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ON DATA SECURITY, THEY THEN OEFINE FUNCTIONAL ASPECTS OF DATA SECURITY AND GD ON TO DISCUSS SECURITY PROBLEMS IN THE COMPUTER COMMUNICATIONS ENVIRONMENT, PROBLEMS DEALING WITH SECURITY IN MULTI-TERMINAL COMPUTER SYSTEMS, INTELLIGENT TERMINAL/COMPUTER INTERACTIONS AND COMPUTER NETWORKS ARE EXPLORED, IALSO UNDER 1.3]

S.7 USER SERVICES

ABRAMS, MARSHALL D., REMOTE COMPUTING: THE ADMINISTRATIVE SIDE, (NATIONAL BUREAU DF STANDARDS, WASHINGTON, DC, INST, FOR CCMFUTER SCIENCES AND TECHNOLOGY), COMPUTER DECISIONS, VDL S, ISSUE 10, CCT 73, P 42-46, B REFS

FRCBLEWS FACED BY REMOTE COMPUTER USERS ARE IDENTIFIED, AND PROCEOURES TO CORRECT THESE PROBLEMS SUGGESTED. SUGGESTIONS FOR BETTER ADMINISTRATIVE MANAGEMENT INCLUGE ORGANIZING ACCOUNTING, KEEPING USERS INFORMED OF DEVELOPMENTS, PROVIDING PERSONAL SUPPORT, REMOVIDING TECHNICAL SUPPORT, AND SIMPLIFYING THE SYSTEM.

- BOWDDN, EDWARD K., SR., W. J. BARR, COST EFFECTIVE PRIORITY ASSIGNMENT IN NETWORK COMPUTERS. (ILLINDIS, UNIV, DF, URBANA, BELL TELEPHONE LABS. INC., PISCATAWAY, NJ), AFIPS CONFERENCE PROCECOINGS. VOLUME 41, PART II, 1972. FALL JDINT COMPUTER CONFERENCE, (ANAHEIM, CA. DECEMBER S-7, 1972), AFIPS PRESS, MONTVALE, NJ, 1972, (LC S5-44701), P 7SS-763, 9 REFS (ANANTATION UNDER 5.))
- CARLSON, WILLIAM E., STEPHEN G. CROCKER, THE IMPACT DF NETWORKS DN THE SDFTWARE MARKETPLACE. (AIR FORCE DATA AUTOMATION AGENCY, WASHINGTON, OC, AIR FORCE DATA SERVICES CENTER, OEFENSE ADVANCED RESEARCH PROJECTS AGENCY, ARLINGTON, VA), EASCON *74, IEEE ELECTRONICS AND AEROSPACE SYSTEMS CONVENTION, (WASHINGTON, DC, DCTOBER 7-9, 1974), INSTITUTE DF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YORK, 1974, IEEE 74-CHO-083-1-AEE, (LC 73-2277), P 300-300, II REFS
- IANNTATION UNCER 4.3)
- COTTON, IRA W., NETWORK MANAGEMENT SURVEY, NATIONAL BUREAU DE STANDARDS, WASHINGTON, OC, INST, FOR COMPUTER SCIENCES AND TECHNOLOGY, FEB 74, NBS TN-BOS, NSE AG-350, B3P (ANNCTATION UNDER 5.1)
- CAVIS, RUTH N., PRACTICALITIES OF NETWORK USE, (NATIONAL BUREAU OF STANDAROS, WASHINGTON, OC, INST. FOR COMPUTER SCIENCES AND TECHNOLOGY), NETWORKS FOR HIGHER EDUCATION, PRCCEEDINGS OF THE EDUCOM SPRING CONFERENCE, (WASHINGTON, OC, APRIL 13, 1972), INTERUNIVERSITY COMMUNICATIONS COUNCIL INC. (EDUCOM), PRINCETON, NJ, 1972, P 13-28
- OOLKAS, JAMES 8, MODERN EQUCATION MEDIA CUT COSTS AT THE CCMPUTER CENTER, NATIONAL AERONAUTICS AND SPACE ADMINISTRATION, MOFFETT FIELO, CA, AMES RESEARCH CENTER, 1972, ISP, 7 REFS

THE FUNCTIONAL ROLE OF THE USER SERVICES ORGANIZATION THAT SUPPORTS A NETWORK IS DISCUSSED. SPECIAL ATTENTION IS GIVEN TO THE NASA AMES VIDEOTAPE EXPERIMENT AS USED FOR USER EDUCATIONAL PURPOSES RELATED TO THE ILLIAC IV AND COC 6000/7600. COMPUTER ASSISTED INSTRUCTION IS ALSO MENTIONED. THE PROBLEMS OF INFORMATION COLLECTION AND DISSEMINATION FOR USERS OF A NATIONAL NETWORK ARE NOT ADORESSED.

- FIFE, DENNIS W., PRIMARY ISSUES IN USER NEEDS, (NATIONAL BUREAU O[¢] STANDARDS, WASHINGTON, OC, INST. FOR COMPUTER SCIENCES AND TECHNOLOGY), GREENBERGE, MARTIN, JULIUS ARONOFSKY, JAMES L. MCKENNEY, WILLIAM F. MASSY, NETWORKS FOR RESEARCH AND EDUCATION: SHARING COMPUTER AND INFORMATICN RESOURCES NATIONWIDE, MIT PRESS, CAMBRIDGE, MA, 1973, P 89-95, 3 REFS
- GREENBERGER, MARTIN, USER ORGANIZATIONS, REPORT OF WORKSHOP 7, (JOHNS HOPKINS UNIV.), GREENBERGER, MARTIN, JULIUS ARONOFSKY, JAMES L. MCKENNEY, WILLIAM F. MASSY, NETWORKS FOR RESEARCH AND EDUCATION: SHARING COMPUTER AND INFORMATION RESOURCES NATIONWIDE, MIT PRESS, CAMBRIDGE, MA, 1973, P 273-281 (ANNOTATICN UNDER 2.3)
- GROBSTEIN, GAVIG L., RONALD P. UHLIG, A WHOLESALE RETAIL CONCEPT FOR COMPUTER NETWORK MANAGEMENT, (PICATINNY ARSENAL, OUVER, NJ, U.S. ARMY MATERIEL COMMANG, WASHINGTON, GC), AFIPS CONFERENCE PROCEEDINGS, VOLUME AI, PART II, 1972, FALL JOINT COMPUTER CONFERENCE, IANAHEIM, CA, DECEMBER S-7, 1972), AFIPS PRESS, MUNTVALE, NJ, 1972, (LC 55-4470]), P BB9-B98, 14 REFS

THIS CLASSIC PAPER INTRODUCES THE 'WHOLESALE/RETAIL' APPROACH TO THE MANAGEMENT OF COMPUTER NETWORKS, UNDER THIS CCNCEPT, A DISTINCTION IS MADE BETWEEN THE PRODUCTION OF NETWORK SERVICES, A WHOLESALE FUNCTION, AND THEIR OELIVERY TO CUSTOMERS, A RETAIL FUNCTION, WHOLESALE PRODUCERS, SUCH AS LARGE TIMESHARING COMPUTER CENTERS, CAN THE DELIVERY TO CENTRALIZATION AND ECONOMIES OF SCALE IN ORDER TO REDUCE UNIT COSTS, RETAIL SUPPLIERS, ON THE DIHER HAND, NEED TO BE DECENTRALIZED TO CONCENTRATE ON THEIR MAIN FUNCTION -- PROVIDING ASSISTANCE TO USERS. THIS PAPER DESCRIBES THE CONCEPT IN TUTORIAL FASHION, AND THEN LLUSTRATES HOW IT MIGHT BE APPLIED TO THE AUTHORS' ORGANIZATION, THE U. S. ARWY MATERIAL COMMANG. THE POINT IS THAT AMC IS UNITE SIMILAR IN ORGANIZATION TO LARGE COMPORATIONS.

NEUMANN, A. J., NETWORK USER INFORMATION SUPPORT, NATIONAL BUREAU OF STANDARDS, WASHINGTON, OC. SYSTEMS AND SOFTWARE CIV., DEC 73, NBS TN-B02, NSF AG-350, 27P, 14 REFS

WITH INCREASING INTEREST IN THE GEVELOPMENT OF COMPUTER NETWORKS AND THE PROLIFERATION OF REMOTE ENTRY CAPABILITY FROM USER TERMINALS, USER SUPPORT TAKES ON NEW OIMENSIONS. SOME USER CHARACTERISTICS ARE OUTLINED AS THEY AFFECT USER SUPPORT, USER SUPPORT REQUIREMENTS ARE IDENTIFIED FOR TRAINING, TERMINAL OPERATION, AND GENERAL INFORMATION TO AID IN NETWORK OPERATIONS. SUPPORT CAPABILITIES INCLUE ON-LINE AIDS, INFORMATION AVAILABLE ON REQUEST, NOT UTORIAL INFORMATION AVAILABLE AT THE TERMINAL, USER SUPPORT ACD INCLUES PERTINENT OCCUMENTATION AND HUMAN CONSULTATION. AREAS OF FUTURE RESEARCH IDENTIFIED ARE: INTERACTIVE LANGUAGE DESIGN, TUTORIAL CESIGN, INTEGRATION OF MARD COPY AND ON-LINE CAPABILITIES, AND FURTHER DEVELOPMENT OF USER FEEDBACK CAPABILITY. LALSO UNCER 2.3)

- NIELSEN, NORMAN R., NETWORK COMPUTING. (STANFORD UNIV., CA. WELLSCO DATA CORP.). GREENBERGER, MARTIN. JULIUS ARDNOFSKY. JAMES L. MCKENNEY. WILLIAM F. MASSY. NETWORKS FOR RESEARCH AND EDUCATION: SHARING COMPUTER AND INFORMATION RESOURCES NATIONWIDE. MIT PRESS. CAMBRIDGE, MA. 1973. P 64-73. I REFS IANNOTATICN UNDER 1.2)
- DWENS, JERRY L,, A USER'S VIEW OF THE LAWRENCE LIVERMORE LABORATORY'S COMPUTER NETWORKS, (LAWRENCE LIVERMORE LAB., LIVERMORE, CA), COMPCEN 73 - SEVENTH ANNUAL IEEE COMPUTER SOCIETY INTERNATIONAL CONFERENCE, DIGEST OF PAPERS, *COMPUTING NETWORKS FROM MINIS THROUGH MAXIS -- ARE THEY FOR REAL?', ISAN FRANCISCO, CA, FEBRUARY 27-28. MARCH 1, 1973), INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS INC., NEW YORK, 1973, (LC 68-1622), P 75-78, 4 REFS IANNOTATION UNDER 3.1,2)
- PARKER, LOUIS T., JR., THOMAS M. GALLIE, FREOERICK P. BROCKS, JR., JANES K. FERRELL, INTRODUCING COMPUTING TO SMALLER COLLEGES AND UNIVERSITIES---A PROGRESS REPORT, (NORTH CAROLINA COMPUTER GRIENTATION PROJECT, RESEARCH TRIANGLE PARK, OUKE UNIV,, OURHAM, NC, NORTH CAROLINA, UNIV. OF, CHAPEL HILL, NORTH CAROLINA, STATE UNIV, OF, RALEIGH), COMMUNICATIONS OF THE ACM, VOL 12, ISSUE 6, JUN 69, P 319-323, 6 REFS IANNOTATION UNDER 5,0)
- PICKENS, JOHN R., COMPUTER NETWORKS FROM THE USER'S POINT OF VIEW, (CALIFORNIA, UNIV. OF, SANTA BARBARA, OEPT, OF ELECTRICAL ENGINEERING), COMPCON 73 - SEVENTH ANNUAL IEEE COMPUTER SOCIETY INTERNATIONAL CONFERENCE, DIGEST OF PAPERS, *COMPUTING NETWORKS FROM MINIS THROUGH MAXIS -- ARE THEY FOR REAL7*, ISAN FRANCISCO, CA, FEBRUARY 27-28, MARCH 1, 1973), INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS INC., NEW YORK, 1973, (LC 68-1628), P 71-74, 7 REFS (ANNOTATION UNDER 2.3)
- PYKE, THOMAS N., JR., ROBERT P. BLANC, NETWORKING CHALLENGES: THE USER'S VIEWPOINT, (NATIONAL BUREAU OF STANDARDS, WASHINGTON, OC, INST. FOR COMPUTER SCIENCE AND TECHNOLOGY). FACTS AND FUTURES, WHAT'S HAPPENING NUW IN COMPUTING FOR HIGHER EDUCATION, PROCEEDINGS OF THE EDUCOM FALL CONFERENCE, IPRINCETON, NJ, OCTOBER 9-11, 1973), INTERINIVERSITY COMMUNICATIONS COUNCIL INC. IEDUCOM), PRINCETON, NJ, 1974, (LC 74-79323), P 211-217

S. 7 USER SERVICES

(ANNOTATION UNDER 2+3)

PYKE, THEMAS N., JR., SEME TECHNICAL CONSIDERATIONS FOR IMPROVED SERVICE TO COMPUTER NETWORK USERS. (NATIONAL BUREAU OF (KE, THEMAS N., JR., SEME TECHNICAL CONSIDENTIONS FOR IMPROVED SERVICE TO COMPUTER NEIMURK USERS. (NATIONAL BUREAU OF STANDAROS, MASHINGTON, OC, INST. FOR COMPUTER SICIENCES AND TECHNOLOGY). CEMPCON 73 - SEVENTH ANNUAL IEEE COMPUTER SOCIETY INTERNATIONAL CONFERENCE, DIGEST OF PAPERS. *COMPUTING NETWORKS FROM MINIS THROUGH MAXIS -- ARE THEY FOR REAL?*. (SAN FRANCISCO. CA. FEBRUARY 27-28, MARCH 1, 1973), INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS INC., NEW YORK, 1973, (LC 68-1620), P S3-SS, 9 REFS

THERE ARE MANY TYPES OF SERVICES REQUIRED AND DESIRED BY USERS OF A COMPUTER NETWORK. IN THIS PAPER THE AUTHOR DISCUSSES A "GENERIC SET OF USER COMMUNICATIONS SUPPORT SERVICE THAT ARE COMMON ACROSS CLASSES OF USERS AND CLASSES OF HOST COMPUTER SERVICES.* VARIOUS TYPES OF USER DEMANDS ARE CONSIDERED AND SOME ALTERNATIVES ARE GIVEN FOR PROVIDING THE CAPABILITY TO SUPPORT THESE USER SERVICES. (AL SO UNDER 3.4.4)

S.B PROCUREMENT

COTTON, IRA W., COST-BENEFIT ANALYSIS OF INTERACTIVE SYSTEMS, (NATIONAL BUREAU OF STANDARDS, WASHINGTON, DC, INST. FOR COMPUTER SCIENCES AND TECHNOLOGY), THE SECON JERUSALEM CONFERENCE ON INFORMATION TECHNOLOGY. (JERUSALEM, (ISRAEL), JULY 29-AUSGUST 1, 1974), 1974, P

729-746, 29 REFS

COST-BENEFIT ANALYSIS IS OISTINGUISHED FROM ANALYSES OF SYSTEM PERFORMANCE IN THAT THE LATTER ARE DIRECTED AT OPTIMIZING SYSTEM PERFORMANCE AT A GIVEN LEVEL OF INVESTMENT, WHILE THE FORMER IS DIRECTED AT JUSTIFYING THE INVESTMENT ITSELF. THIS PAPER ASSESSES THE STATE-OF-THE-ART IN COST-BENEFIT ANALYSIS OF INTERACTIVE SYSTEMS AND SUGGESTS AN APPROACH FCR DEVELOPING IMPROVED METHODOLOGY. METHODOS OF ANALYZING THE PERFORMANCE AND COSTS OF COMPUTER SYSTEMS IN GENERAL AND INTERACTIVE SYSTEMS IN PARTICULAR ARE DISCUSSED. WITH THIS INFORMATION IT IS SHOWN MOW COST-EFFECTIVENESS ANALYSIS MAY BE PERFORMED, THE NEXT CRUCIAL STEP IS TO CONCUCT EENEFIT ANALYSIS, AN ILL-DEFINED ART. THE RESULTS OF BENEFIT ANALYSIS MUST BE COMBINED WITH COST-EFFECTIVENESS ANALYSIS IN ORDER TO PERFORM THE DESIRED COST-BENEFIT ANALYSIS. AN EXPERIMENTAL METHODOLOGY IS SUGGESTED FOR BETTER PERFORMING BENEFIT ANALYSES OF INTERACTIVE SYSTEMS, A MORE RIGOROUS TORNULATION OF THE COST-BENEFIT PROCEDURE IS THEN OUTLINED. NO ATTEMPT IS MADE IN THE PAPER TO ACTUALLY PERFORM SUCH AN ANALYSIS.

(ALSO UNDER 2.2)

LIENTZ. BENNET P., COMPUTER NETWORK USAGE - COST-BENEFIT ANALYSIS, (CALIFORNIA, UNIV. OF, LOS ANGELES, GRADUATE SCHOOL AGEMENT) SHERROO, J., INFORMATION SYSTEMS AND NETWORKS, GREENWOOD PRESS, 1975, P 117-132, 18 REFS

AN EXTREMELY FORMAL MATHEMATICAL MODEL AND ANALYSIS PROCEDURE IS PRESENTED FOR SELECTING THE MOST COST-BENEFICIAL ALTERNATIVE FROM AMONG A NUMBER OF POSSIBILITIES IN A NETWORKING ENVIRONMENT WHERE DECISIONS HAVE TO BE MADE ON WHERE TO PERFORM WORK OF VARING TYPES. THE MODEL CONSIDERS THE NUMBER OF SYSTEMS AVAILABLE AND THEIR USAGE COSTS (BOTH VARIABLE AND FIXED), RESOURCE LIMITATIONS, THANSITICN COSTS IN CHANGING THE MODE OF SYSTEMS AVAILABLE AND THEIR USAGE COSTS GENTRA PREFERENCES, AND THE COST OF CAPITAL. NETWORKING BENEFITS ARE REFLECTED IN THE MODEL AS A REOUCTION IN EXTERNAL COSTS OF USAGE. IF ALL THE VARIOUS COSTS AND FACTORS CAN BE DETERMINED, AN OPTIMAL SOLUTION CAN BE OBTAINED FOR THE USAGE. (ALSO UNDER S.3)

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- EENDIT, JCHN W., IRA W. COTTON, O, C. WCOO, PROPOSEO IMPLEMENTATION PLAN FOR A WWMCCS INTERCOMPUTER NETWORK, MITRE Corp., WashingTon, oc, 2 dec 71, mc WP-9807, af F19628-71-C-0002, 41P (Annotation under 3-1.1)
- FARBER, DAVID J., DISTRIBUTED DATA BASES -- AN EXPLORATION, (CALIFORNIA, UNIV. OF, INVINE, DEPT. OF INFORMATION AND
- COMPUTER SCIENCE), PROCEEDINGS OF THE 1975 SYMPOSIUM-COMPUTER NETWORKS: TRENOS AND APPLICATIONS, (GAITHERSBURG, MG, JUNE 18, 1975), INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC., NEW YORK, 1975, 7SCH0973-BC, P 25-27, 2 REFS (ANNCTATION UNDER [.3]
- FERNDON, EOWIN S., MERBERT J. STERNICK, JOHN W, BENOIT, ROY C. BEVERIDGE, PAUL BRUCE, IRA W, COTTON, JEAN ISELI, RANVIR K. TREHAN, NOREEN D. WELCH, O. C. WOOD, PROTOTYPE WWWCCS INTERCOMPUTER NETWORK (PWIN) DEVELOPMENT PLAN, MITRE CORP., WASHINGTON, DC, 1 MAY 71, MC MTR-6181, AF F19628-71-C-0002, 149P, 13 REFS (ANDTATION UNDER 3.1.1)

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IMPROVEMENTS IN THE DESIGN AND PERFORMANCE OF THE ARPA NETWORK	$\begin{array}{c} 3 \circ 1 \circ 1 \\ 3 \circ 3 \circ 2 \\ 3 \circ 3 \circ 2 \\ 3 \circ 0 \\ 3 \circ 2 \circ 1 \\ 3 \circ 3 \circ 2 \\ 5 \circ 0 \\ 3 \circ 3 \circ 2 \\ 3 \circ 3 \circ 2 \\ 3 \circ 1 \circ 0 \\ 3 \circ 1 \circ 1 \\ 4 \circ 1 \circ 2 \\ 3 \circ 1 \circ 1 \\ 3 \circ 1 \circ 2 \\ 3 \circ 1 \circ 2 \\ 3 \circ 1 \circ 0 \\ 4 \circ 2 \circ 9 \\ 3 \circ 1 \circ 1 \\ 1 \circ 1 \\ 1 \circ 1 \\ 1 \circ 2 \\ 3 \circ 1 \circ 0 \\ 1 \circ 2 \\ 1 \circ 2 \\ 1 \circ 1 \\ 1 \circ$	HEART ORNSTEIN HEART CROWTHER CROWTHER ARNSTEIN HEATH HEBNITCH FARBER HEINRTCH FARBER ELOVITZ FUCHEL HENCH HENCH HERNON
IMPROVEMENTS IN THE DESIGN AND PERFORMANCE OF THE ARPA NETWORK	$\begin{array}{c} 3 \circ 1 \circ 1 \\ 3 \circ 3 \circ 2 \\ 3 \circ 3 \circ 2 \\ 3 \circ 2 \circ 1 \\ 3 \circ 3 \circ 2 \\ 3 \circ 3 \circ 2 \\ 3 \circ 3 \circ 2 \\ 3 \circ 1 \circ 2 \\ 1 \circ 2 \\ 0 \\ 1 \circ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 0$	HEART OGNSTEIN HEART CROWTHER CROWTHER ARNSTEIN HEATH HEBOITCH HEATH HEINRICH FARBER HEINRICH FARBER ELOVITZ FUCHEL HENCH THOMAS CHRISTY HERNOON
IMPROVEMENTS IN THE DESIGN AND PERFORMANCE OF THE ARPA NETWORK	$\begin{array}{c} 3 \circ 1 \circ 1 \\ 3 \circ 3 \circ 2 \\ 3 \circ 2 \\ 3 \circ 2 \\ 3 \circ 2 \circ 1 \\ 3 \circ 2 \circ 1 \\ 3 \circ 3 \circ 2 \\ 5 \circ 0 \\ 3 \circ 3 \circ 2 \\ 3 \circ 1 \circ 0 \\ 3 \circ 3 \circ 2 \\ 3 \circ 1 \circ 0 \\ 3 \circ 1 \circ 2 \\ 3 \circ 1 \circ 0 \\ 3 \circ 1 \circ 0 \\ 4 \circ 1 \circ 2 \\ 3 \circ 1 \circ 0 \\ 3 \circ 1 \circ 0 \\ 1 \circ 1 \\ 3 \circ 1 \circ 1 \end{array}$	HEART ORNSTEIN HEART CROWTHER CROWTHER ARNSTEIN HEARTH HEENTCH HEANTH HEINTCH HEINTCH HEINTCH HEINTCH HENCH HENCH HENCH HENCON MERNOON ALARCIA
IMPROVEMENTS IN THE DESIGN AND PERFORMANCE OF THE ARPA NETWORK	$\begin{array}{c} 3 \circ 1 \circ 1 \\ 3 \circ 3 \circ 2 \\ 3 \circ 0 \\ 3 \circ 2 \circ 1 \\ 3 \circ 3 \circ 2 \\ 3 \circ 1 \circ 0 \\ 1 \circ 2 \\ 3 \circ 1 \circ 0 \\ 1 \circ 2 \\ 3 \circ 1 \circ 0 \\ 1 \circ 2 \\ 3 \circ 1 \circ 0 \\ 1 \circ 1 \\ 3 \circ 1 \circ 0 \\ 1 \circ 1 \\ 3 \circ 1 \circ 1 \\ 3 \circ 1 \circ 1 \\ 3 \circ 1 \circ 0 \\ 1 \circ 1 \\ 3 \circ 1 \circ 1 \\ 3 \circ 1 \circ 0 \\ 1 \circ 1 \\ 3 \circ 1 \circ 1 \\ 3 \circ 1 \circ 0 \\ 1 \circ 1 \\ 3 \circ 1 \circ 1 \\ 3 \circ 1 \circ 0 \\ 1 \circ 1 \\ 3 \circ 1 \circ 1 \\ 3 \circ 1 \circ 0 \\ 3 \circ 1 \circ 0 \\ 1 \circ 1 \\ 3 \circ 1 \circ 0 \\ 1 \circ 0 \\ 1 \circ 1 \\ 1 \circ 0 \\$	HEART OGNSTEIN HEART CROWTHER CROWTHER ARNSTEIN HEATH HEBOITCH HEATH HEINRICH FARBER HEINRICH FARBER ELOVITZ FUCHEL HENCH THOMAS CHRISTY HERNOON
IMPROVEMENTS IN THE DESIGN AND PERFORMANCE OF THE ARPA NETWORK	$\begin{array}{c} 3 & 1 & 1 & 1 \\ 3 & 3 & 3 & 2 \\ 3 & 3 & 2 & 1 \\ 3 & 2 & 1 & 3 \\ 3 & 2 & 1 & 3 \\ 3 & 2 & 1 & 1 \\ 4 & 1 & 3 & 1 & 0 \\ 3 & 1 & 1 & 1 \\ 4 & 1 & 2 & 3 \\ 3 & 1 & 0 \\ 1 & 2 & 3 & 2 \\ 3 & 1 & 0 \\ 1 & 1 & 3 \\ 3 & 1 & 0 \\ 1 & 1 & 3 \\ 3 & 1 & 0 \\ 3 & 1 & 0 \\ 3 & 1 & 0 \\ 3 & 1 & 0 \\ 3 & 1 & 0 \\ 3 & 1 & 0 \\ 3 & 1 & 0 \\ 3 & 1 & 0 \\ 3 & 1 & 0 \\ 3 & 2 & 2 \\ 3 & 2 & 2 \\ 3 & 2 & 2 \\ 1 & 1 & 1 \\ 3 & 1 & 0 \\ 3 & 1 & 0 \\ 3 & 1 & 0 \\ 3 & 1 & 0 \\ 3 & 1 & 0 \\ 3 & 1 & 0 \\ 3 & 2 & 2 \\ 3 & 2 & 2 \\ 1 & 1 & 1 \\ 1 & 1 & 1 \\ 1 & 1 & 1 \\ 1 & 1 &$	HEART OGNNSTEIN HEART CROWTHER CROWTHER ARNSTEIN HEATH HEADITCH HEAN HEANTCH HEANTCH FARBER ELOVITZ FUCHEL HENCH CHRISTY HERNOON ALARCIA HERZOG
IMPROVEMENTS IN THE DESIGN AND PERFORMANCE OF THE ARPA NETWORK	$\begin{array}{c} 3 & 1 & 1 & 1 \\ 3 & 1 & 3 & 2 & 3 \\ 3 & 2 & 3 & 2 \\ 3 & 2 & 1 & 3 \\ 5 & 0 & 2 & 1 \\ 5 & 0 & 2 & 3 \\ 5 & 0 & 2 & 3 \\ 3 & 1 & 0 & 1 \\ 3 & 1 & 0 & 1 \\ 4 & 1 & 2 & 3 \\ 3 & 1 & 0 & 1 \\ 4 & 2 & 2 & 9 \\ 1 & 1 & 3 & 1 & 0 \\ 3 & 1 & 1 & 1 \\ 3 & 1 & 1 & 1 \\ 3 & 1 & 0 & 3 \\ 1 & 0 & 3 & 1 & 0 \\ 3 & 1 & 0 & 3 \\ 3 & 1 & 0 & 3 \\ 3 & 1 & 0 & 0 \\ 3 & 1 & 0 &$	HEART ORNSTEIN HEART CROWTHER CROWTHER ARNSTEIN HEATH HEENTCH HEARTH HEINTCH FARBER FLOCHEL HENCH HENNON ALARCIA HEENOON HEENOON HEENOON HERZOG BRUCE
IMPROVEMENTS IN THE DESIGN AND PERFORMANCE OF THE ARPA NETWORK	$\begin{array}{c} 3 & 1 & 1 & 1 \\ 3 & 1 & 3 & 2 & 3 \\ 3 & 2 & 3 & 2 \\ 3 & 2 & 1 & 3 \\ 5 & 0 & 2 & 1 \\ 5 & 0 & 2 & 3 \\ 5 & 0 & 2 & 3 \\ 3 & 1 & 0 & 1 \\ 3 & 1 & 0 & 1 \\ 4 & 1 & 2 & 3 \\ 3 & 1 & 0 & 1 \\ 4 & 2 & 2 & 9 \\ 1 & 1 & 3 & 1 & 0 \\ 3 & 1 & 1 & 1 \\ 3 & 1 & 1 & 1 \\ 3 & 1 & 0 & 3 \\ 1 & 0 & 3 & 1 & 0 \\ 3 & 1 & 0 & 3 \\ 3 & 1 & 0 & 3 \\ 3 & 1 & 0 & 0 \\ 3 & 1 & 0 &$	HEART ORNSTEIN HEART CROWTHER CROWTHER ARNSTEIN HEATH HEENTCH HEARTH HEINTCH FARBER FLOCHEL HENCH HENNON ALARCIA HEENOON HEENOON HEENOON HERZOG BRUCE
IMPROVEMENTS IN THE DESIGN AND PERFORMANCE OF THE ARPA NETWORK	$\begin{array}{c} 3 & 1 & 1 & 1 \\ 3 & 1 & 3 & 2 & 3 \\ 3 & 2 & 3 & 2 \\ 3 & 2 & 1 & 3 \\ 5 & 0 & 2 & 1 \\ 5 & 0 & 2 & 3 \\ 5 & 0 & 2 & 3 \\ 3 & 1 & 0 & 1 \\ 3 & 1 & 0 & 1 \\ 4 & 1 & 2 & 3 \\ 3 & 1 & 0 & 1 \\ 4 & 2 & 2 & 9 \\ 1 & 1 & 3 & 1 & 0 \\ 3 & 1 & 1 & 1 \\ 3 & 1 & 1 & 1 \\ 3 & 1 & 0 & 3 \\ 1 & 0 & 3 & 1 & 0 \\ 3 & 1 & 0 & 3 \\ 3 & 1 & 0 & 3 \\ 3 & 1 & 0 & 0 \\ 3 & 1 & 0 &$	HEART ORNSTEIN HEART CROWTHER CROWTHER ARNSTEIN HEATH HEENTCH HEARTH HEINTCH FARBER FLOCHEL HENCH HENNON ALARCIA HEENOON HEENOON HEENOON HERZOG BRUCE
IMPROVEMENTS IN THE DESIGN AND PERFORMANCE OF THE ARPA NETWORK	$\begin{array}{c} 3&1&1&1\\ 3&3&3&2&2\\ 3&3&2&2&3\\ 3&3&2&2&1\\ 3&3&2&2&3\\ 3&3&3&2&2&3\\ 3&3&3&3&3&1&2\\ 3&3&3&1&1&2&3\\ 3&3&1&1&2&3&3\\ 3&3&1&1&2&3&3\\ 3&3&1&2&3&3&3\\ 3&3&1&2&3&3&3\\ 3&3&1&2&3&3&3\\ 3&3&1&2&3&3&3\\ 3&3&1&2&3&3&3\\ 3&3&1&2&3&3&3\\ 3&3&1&2&3&3&3\\ 3&3&1&2&3&3&3\\ 3&3&1&2&3&3&3\\ 3&3&1&2&3&3&3\\ 3&3&1&2&3&3&3\\ 3&3&1&2&3&3&3\\ 3&3&1&2&3&3&3\\ 3&3&1&2&3&3&3\\ 3&3&1&2&3&3&3\\ 3&3&1&2&3&3&3\\ 3&3&1&2&3&3&3\\ 3&3&3&2&3&3&3\\ 3&3&3&3&3&3&3\\ 3&3&3&3&3&3&3\\ 3&3&3&3&$	HEART OGRNSTEIN HEART CROWTHER CROWTHER ARNSTEIN HEATH HEADITCH HEANTH HEADITCH HEARTH HEINICH FARBER ELDVITZ FARBER ELDVITZ FARBER ELDVITZ CHRISTY HERNOON ALARCIA HERZOG HERZOG BAUER BAUER BAUER HINKELMAN
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•PARTY-LINE• AND *DISCUSSION* COMPUTERIZED CONFERENCE SYSTEMS	4.1.1	
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A WHOLESALE RETAIL CONCERT FOR COMPUTER NETWORK MANAGEMENT		GROBSTEIN
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ARRIVAL PACKET [ARRIVAL] AND BUFFER STATISTICS IN A PACKET SWITCHING NODE ARRIVALS A	3.3.2 2.1.2 1.3 1.3 1.3 5.5 3.1.2 2.9 2.1.2 3.1.2 2.1.2 2.1.2 3.1.2 2.1.2 2.1.2 3.1.2 2.1.2 3.1.2 2.1.2 3.1.2 2.1.2 3.1.2 2.1.2 3.1.2 2.1.2 3.1.2 2.1.2 3.1.3 3.1.2 3.1.2 3.1.2 3.1.2 3.1.2 3.1.2 3.1.	OUOICK FPANK PYKE FRANK FITZSIMONS CERF WHITNEY BOWOON BOWOON BOWOON BOWOON BOWOON THOMAS MUNTZ CHU CHU ENGELBART
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<pre>[TIME-SHARED] INFORMATION SYSTEMS: MARKET ENTRY IN SEARCH OF A POLICY SCHEDULING. OUEUEING. AND DELAYS IN (TIME-SHARED) SYSTEMS AND COMPUTEP NETWORKS TIME-SHARING TERMINAL NETWORKS FOR [TIME-SHARING] A STUDY OF ASYNCHRONOUS TIME DIVISION MULTIPLEXING FOR [TIME-SHARING] COMPUTER SYSTEMS AN INTEPACTIVE NETWORK OF [TIME-SHARING] COMPUTERS A CODPERATIVE NETWORK OF [TIME-SHARING] COMPUTERS: PRELIMINARY STUDY</pre>	2 • I • 2 I • 0 3 • 2 • I 3 • 1 • 0 3 • 0 3 • 1 • 2 2 • I • 1	O*SULLIVAN CHU PUTLEOGE MARILL
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<pre>[TIME-SHARED] INFORMATION SYSTEMS: MARKET ENTRY IN SEARCH OF A POLICY SCHEDULIKS, OUEVELING, AND DELAYS IN (TIME-SHARED] SYSTEMS AND COMPUTEP NETWORKS [IME-SHARING [TERMINAL NETWORKS FOR (TIME-SHARING]</pre>	2.I.2 I.0 3.2.I 3.1.0 3.1.2 2.I.1 4.I.9 3.2.9 2.I.1 2.I.1 2.I.1 2.I.1 2.I.1 2.I.1 2.I.1 2.I.1 2.I.2 2.I.4 2.I.2 2.I.4 2.I.2 2.I.4 2.I.2 2.I.4 2.I.2 2.I.4 2.I.2 2.I.4 2.I.2 2.I.4 2.I.5 2.	O 'SULLIVAN CHU PUTLEOCE MARILL O'SULLIVAN SORTELS WINETT MAMRAK O'SULLIVAN KELLER BOWDON KERSHENBAUM DEMERCADO FRANK CERF FRANK LAVIA WHITNEY BERG FPEEMAN CADY
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