VALIDATED PRODUCTS LIST
Volume 1
1995 No. 3

Programming Languages
Database Language SQL
Graphics
POSIX
Computer Security
Product Data - IGES

Judy B. Kailey
Editor

U.S. DEPARTMENT OF COMMERCE
Technology Administration
National Institute of Standards
and Technology
Computer Systems Laboratory
Software Standards Validation Group
Gaithersburg, MD 20899

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July 1995
(Supersedes April 1995 issue)
FOREWORD

The Validated Products List (VPL) identifies information technology products that have been tested for conformance to Federal Information Processing Standards (FIPS) in accordance with Computer Systems Laboratory (CSL) conformance testing procedures, and have a current validation certificate or registered test report. The VPL also contains information about the organizations, test methods and procedures that support the validation programs for the FIPS identified in this document. The VPL includes computer language processors for programming languages COBOL, Fortran, Ada, Pascal, C, M[UMPS], and database language SQL; computer graphic implementations for GKS, CGM, PHIGS, and Raster Graphics; operating system implementations for POSIX; Open Systems Interconnection implementations; and computer security implementations for DES, MAC and Key Management. The testing of products to assure conformance to the FIPS may be required by Government agencies in accordance with the FIPS, Federal Information Resources management Regulation (FIRMR) Parts 201.13 and 201.39, and the associated Federal ADP and Telecommunications Standards Index. The VPL is updated and published quarterly.

The entries for Open Systems Interconnection (OSI) are presented in Volume 2 of the Validated Products List. Volume 2 will be sent only to those who specifically request it. If you have received only Volume 1 and wish to receive Volume 2, please contact:

Ms Judy Kailey  
National Institute of Standards and Technology  
Computer Systems Laboratory  
Software Standards Validation Group  
Building 225, Room A266  
Gaithersburg, MD 20899

(301) 975-3259
ACKNOWLEDGEMENTS

The editor would like to acknowledge the valuable efforts and contributions of the following people and organizations within NIST.

Peggy Himes, of the Software Standards Validation Group (SSVG), who worked with the personnel in the Information Systems Engineering Division (ISE) to prepare the SQL entries; and also for her assistance in proof-reading the document.

William Dashiell (ISE) for Ada and SQL entries

Susan Sherrick, (ISE), for GKS entries

Lynne Rosenthal, (ISE), for CGM entries

Kevin Brady, (ISE), for PHIGS information

Martha Gray, of the Systems and Software Technology Division, CSL, for the POSIX entries

James Foti, of the Computer Security Division, CSL, for the Computer Security entries

Michele Buckley, of the Systems and Network Architecture Division, CSL, for Open Systems Interconnection (OSI) entries.
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APPENDIX A FIPS CONFORMANCE TESTING PRODUCTS AND SERVICES .... A-1
1. INTRODUCTION

1.1 Purpose

The testing of Information Technology (IT) Products to determine the degree to which they conform to specific Federal Information Processing Standards (FIPS) may be required by Government agencies as specified by the FIPS, Federal Information Resources Management Regulation (FIRMR) Parts 201-20.303, 201-20.304, and 201-39.1002, and the associated Federal ADP and Telecommunications Standards Index. Products having a current validation certificate or test report may be offered or delivered by vendors in response to requirements as set forth in solicitations by Federal agencies. The Validated Products List (VPL) contains conformance testing information for the following IT Standards:

- Programming Languages COBOL, Fortran, Ada, Pascal, C, and M[UMPS]
- Database Language SQL
- Graphics
- POSIX
- Computer Security
- Open Systems Interconnection (OSI)

This List is updated and published quarterly. The information contained herein is supplied by the contributors listed in Section 2.6 and Appendix A, and is current as of the tenth of the month preceding the publication date. Copies of the VPL may be obtained from:

National Technical Information Service
U.S. Department of Commerce
5285 Port Royal Road
Springfield, VA 22151

Subscriptions: (703) 487-4630
Individual Copies: (703) 487-4650

Ordering Number: PB94-937304/AS

The entries in the printed VPL (except those for Open Systems Interconnection (OSI), POSIX and Ada) are contained in WordPerfect Version 5.1 files and may be accessed on the Internet using the following instructions:

Type: \texttt{ftp speckle.ncsl.nist.gov} (internet address is 129.6.59.2)
Login as user \texttt{ftp}
Type your e-mail address preceded by a dash (-) as the password
Type: \texttt{cd vpl}
Type: \texttt{binary}
Type: \texttt{get} and the name of the file you want; e.g. \texttt{language}

These entries are also available as DOS text files, through the World Wide Web using MOSAIC using one of the following instructions:

a. Open the file called "\texttt{http://speckle.ncsl.nist.gov/~kailey/intro.htm}"
b. Open the file called "\texttt{ftp://speckle.ncsl.nist.gov/vpl/html/intro.htm}"
Questions or comments concerning the VPL should be directed to:

National Institute of Standards and Technology (NIST)  
Computer Systems Laboratory  
Software Standards Validation Group  
Building 225, Room A266  
Gaithersburg, MD 20899  
Telephone (301) 975-3274

1.2 Document Organization

1.2.1 Programming Languages

Section 2 identifies those COBOL, Fortran, Pascal, C, Ada, and M[UMPS] programming language processors that have a current validation certificate or registered test report referencing the applicable FIPS as of the date of this publication.

1.2.2 Database Language SQL

Section 3 identifies those SQL language processors that have a validation certificate or a registered test report for FIPS PUB 127-2 as of the date of this publication.

1.2.3 Graphics

Section 4 lists the implementations or files for which a validation certificate is currently in place. These entries include:

- Graphical Kernel System (GKS) implementations (FIPS PUB 120-1),  
- Programmer's Hierarchical Interactive Graphics Systems (PHIGS) (FIPS PUB 153),  
- Computer Graphics Metafiles (CGMs) (FIPS PUB 128),  
- Raster Graphics data files (FIPS PUB 150).

1.2.4 POSIX

Section 5 identifies POSIX products that have a current validation certificate for FIPS PUB 151-1 and FIPS PUB 151-2.

1.2.5 Computer Security

Section 6 contains information regarding validated products for FIPS PUB 46-1, Data Encryption Standard (DES), FIPS PUB 113, Computer Data Authentication (Implements Message Authentication Code, ANSI X9.9), and FIPS PUB 171, Key Management Using ANSI X9.17.

1.2.6 Open Systems Interconnection (OSI)

Section 7, presented in Volume 2 contains information regarding FIPS PUB 146-1, GOSIP, conformance testing registers. FIPS Pub 146-2, Profile for Open Systems Internetworking Technologies (POSIT), replaces FIPS 146-1. However, this information is retained for the convenience of agencies that wish to acquire OSI Protocols.
1.2.7 FIPS Conformance Testing Products

Appendix A lists FIPS conformance testing products and services available to the public. Information for these products and services may be obtained by contacting the appropriate person listed.
2. PROGRAMMING LANGUAGES

2.1 FIPS Programming Language Standards

As specified by the FIPS, FIRMR and the associated Federal ADP and Telecommunications Standards Index, Federal agencies when acquiring language processors, are responsible for assuring that processors are in accordance with the following FIPS for programming languages:

a. COBOL processors must satisfy the provisions of FIPS PUB 21-3, COBOL, and must be identified as implementing all of the language elements of at least one of the subsets of FIPS COBOL as specified in FIPS PUB 21-3.

b. BASIC processors must satisfy the provisions of FIPS PUB 68-2, BASIC.

c. Fortran processors must satisfy the provision of FIPS PUB 69-1, Fortran, (based on ANSI X3.9-1978) and must be identified as implementing all of the language elements of the subset or full levels of FIPS Fortran as specified in FIPS PUB 69-1.

d. Pascal processors must satisfy the provisions of FIPS PUB 109, Pascal.

e. Ada processors must satisfy the provisions of FIPS PUB 119, Ada.

f. M[UMPS] processors must satisfy the provisions of FIPS PUB 125-1, M[UMPS].

g. C processors must satisfy the provisions of FIPS PUB 160, C.

h. VHDL processors must satisfy the provisions of FIPS PUB 172, VHDL.

Copies of the above publications are for sale by the National Technical Information Service, U.S. Department of Commerce, Springfield, VA 22161.

Conformance testing programs are currently available for all above FIPS except for the programming language BASIC and VHDL. A test suite for BASIC is being developed.

2.2 Organization of Programming Language Processor Entries

The entries in the VPL for programming language processors are presented as follows:

• The SUPPLIER column contains the name of the provider of the processor that was tested.

• The next column contains the PROCESSOR IDentification, the Validation Summary Report (VSR) number, the SUBSET, and the EXPIRY DATE.

The PROCESSOR ID is the product name and version of the processor that was tested.

The VSR number refers to the VSR that was produced as a result of the testing. The VSR describes the testing environment and details any processor nonconformity that was detected as a result of the testing. Information for obtaining a VSR is listed in section 2.6.
The EXPIRY DATE is the expiration date of the Certificate of Validation or Registered Validation Summary Report. A processor may be included in the List after the certificate has expired if the validation is in process. Notification must be received by NIST at least 30 days prior to publication of the List in order for such a processor to be included. In this case the expiration date will be followed by "(pending)."

For COBOL processors, the SUBSET refers to the applicable Federal Subset (Minimum, Intermediate, or High). For Fortran processors, the LEVEL specifies the applicable Federal level (Subset or Full). For Pascal processors, the ISO 7185 Pascal Standard Level (ISO 7185 Level 0 is equivalent to FIPS 109).

- The HARDWARE & OPERATING SYSTEM column presents the hardware and operating system environment (including pertinent supporting system software) used during the validation.

- The entries in the OTHER ENVIRONMENTS column are registered hardware and operating system environments for the processor tested. The vendor of the processor has certified that the identified processor, when operating under the environments included in this column, produces the same test results as those obtained from the hardware and operating system environment used during the validation. Test results and other information from these environments may be required as evidence for entries to be included in this column.

The entries for Ada language processors are not presented in column format.

Also listed are the programming language processors that have been tested and during the testing were found to have one or more nonconformities.

2.3 Validation of Processors

2.3.1 Validation Requirements

In accordance with the requirements referenced in Section 1.1, language processors offered to the Government for purchase, lease, or use in connection with ADP services shall be validated for conformance to FIPS for programming languages. To confirm that the specifications of the designated FIPS have been met:

a. the processor shall be tested with the Compiler Validation System (CVS) approved by NIST,

b. the processor validations shall be conducted in accordance with NIST validation procedures,

c. a Validation Summary Report (VSR) shall be produced summarizing the test results of the CVS on the designated processor for that FIPS,

d. all nonconformities noted in the VSR shall be corrected within twelve months,

e. a Certificate of Validation shall be issued if validation results warrant. In order for a processor to receive a Certificate of Validation the processor must successfully pass all applicable tests of the CVS without exception.

The Federal ADP and Telecommunications Standards Index supplies standard terminology which may allow for delayed validation. When delayed validation is allowed, the offeror may meet this requirement by showing evidence of having submitted the processor for validation. Proof of submission is in the form of a letter from NIST scheduling the validation.
Programming language processors offered to the Federal Government must comply with the applicable Government requirements. Failure to comply with these requirements shall be deemed sufficient cause to declare a bidder non-responsive or to declare a vendor in default for failure to deliver required software.

2.3.2 Placement in the List

For a processor to be placed in the List it must:

a. have been officially tested within the past twelve calendar months, and
b. have no errors remaining that were identified during a previous test.

2.3.3 Removal from the List

A processor is removed from the List when:

a. the processor is not officially tested within twelve calendar months, or
b. testing indicates that the processor still contains errors identified during a previous validation.

2.3.4 Validation Procedures

Validation procedures are published in the following documents:

- Compiler Validation Procedures, dated January 15, 1993
- Ada Compiler Validation Procedures and Guidelines, Version 3.1, August, 1992
- Pascal Validation Policy and Procedures, Version 5.6, September 1, 1994

2.4 Certificate of Validation

A Certificate of Validation is issued for those programming language processors that have been tested and are considered to be in compliance with the FIPS as specified by the FIPS, FIRMR and the associated Federal ADP and Telecommunications Index.

The requirement for retesting may be waived and the certificate of validation extended at the option of NIST if:

a. no errors were identified during the previous testing of the processor,
b. the vendor certifies, in writing, to NIST that no changes have been made to either the processor or the supporting system software, and
c. no new version of the validation system has been officially released during the interim period.
2.5 Language Processor Validation Suites

Following are the validation suites and ordering information for testing programming language processors for conformance to FIPS.

a. Copies of the COBOL, Fortran, M[UMPS], and Ada Compiler Validation Suites may be purchased from:

National Technical Information Service (NTIS)
5285 Port Royal Road
Springfield, VA 22161
Telephone (703) 487-4650 (Voice)
(703) 321-8547 (FAX)

<table>
<thead>
<tr>
<th>COMPILER VALIDATION SYSTEM [MEDIUM/FORMAT]</th>
<th>VERSION</th>
<th>NTIS ACCESSION NUMBER</th>
</tr>
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<tbody>
<tr>
<td>COBOL 85 (CCVS85)</td>
<td>4.2</td>
<td>PB93-504918</td>
</tr>
<tr>
<td>Fortran (FCVS78)</td>
<td>2.1</td>
<td>PB94-500691</td>
</tr>
<tr>
<td>Ada [Tape/Backup]</td>
<td>1.11</td>
<td>ADA212551</td>
</tr>
<tr>
<td>Ada [Tape/Tar]</td>
<td>1.11</td>
<td>ADA212437</td>
</tr>
<tr>
<td>Ada [Tape ANSI Standard]</td>
<td>1.11</td>
<td>ADA212548</td>
</tr>
<tr>
<td>Ada [Disk (MS/DOS)]</td>
<td>1.11</td>
<td>ADA212549</td>
</tr>
<tr>
<td>M[UMPS]</td>
<td>8.3</td>
<td>PB94-504099</td>
</tr>
</tbody>
</table>

b. The current version of the Pascal Validation System (PVS) is Version 5.7 and is available from:

Prospero Software
190 Castelnau
London
SW13 9DH
ENGLAND
Telephone (011) +44-081 741 8531 (Voice)
(011) +44-081 748 9344 (FAX)

c. The current version of the ANSI C Validation Suite (ACVS™) is Version 4.2 and is available from:

Perennial, Inc.
4699 Old Ironsides Drive
Suite 210
Santa Clara, CA 95054
Telephone (408) 748-2900 (Voice)
(408) 748-2909 (FAX)

2.6 Testing Laboratories and Supporting Organizations

The organizations listed below have performed validations, supplied information, or are sources for Validation Summary Reports (VSR) for programming languages. These organizations may be contacted for validation information and for copies of VSR(s). COBOL and Fortran VSR(s) may
be obtained from NIST. Pascal VSR(s) whose VSR numbers begin with "NIST" or end in "US" may also be obtained from NIST. Pascal VSR(s) whose VSR numbers end in "UK" are available from BSI. Ada VSR(s) may be obtained from the Ada Information Clearinghouse, the National Technical Information Service, or from the Ada Validation Facility (AVF) that produced the VSR. To obtain a copy of a VSR from an AVF, locate the upper case letter in the certificate number (e.g., 870608W1...). That letter corresponds to the letter in the CODE column to the left of the organizations listed below.

<table>
<thead>
<tr>
<th>CODE</th>
<th>ORGANIZATION</th>
<th>CONTACTS</th>
<th>LANGUAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>S</td>
<td>National Institute of Standards and Technology Software Standards Validation Group</td>
<td>L. Arnold Johnson, Judy Kailey</td>
<td>COBOL, Fortran, BASIC</td>
</tr>
<tr>
<td></td>
<td>Building 225, Room A266 Gaithersburg, MD 20899 (301) 975-3274 Telex: 197674 NBS UT FAX: (301) 948-6213</td>
<td>Carmelo Montanez, William Dashiell</td>
<td>Pascal, Ada, M[MUMPS], SQL, VHDL</td>
</tr>
<tr>
<td>N</td>
<td>National Computing Centre Limited (NCC) Oxford House, Oxford Road Manchester M1 7ED United Kingdom (011) +44 (61) 228 6333 +44 (61) 236 9877 (FAX) Telex 668962</td>
<td>Jane Pink, Jon Leigh, David Bamber</td>
<td>COBOL, Fortran, Ada, C</td>
</tr>
<tr>
<td></td>
<td>German National Research Center for Computer Science (GMD) Department Scientific Visualization Supercomputer Center (HLRZ) P. O. 1316, Schloss Birlinghoven D-W-5205 Sankt Augustin 1 Germany (011) +49-2241-14-2706 (voice) (011) +49-2241-14-2618 (FAX) <a href="mailto:kirsch@gmdzi.gmd.de">kirsch@gmdzi.gmd.de</a></td>
<td>Berthold Kirsch</td>
<td>Fortran</td>
</tr>
<tr>
<td></td>
<td>Instituto Italiano del marchio di Qualita (IMQ) Servicio SCQ Via Quintilian, 43 20138 Milano Italy +39-2-5073266 +39-2-5073271 (Fax) Telex: 310 393 IMQI</td>
<td>Angelo Belloni</td>
<td>COBOL, Fortran</td>
</tr>
<tr>
<td></td>
<td>JMI Institute 21-25, Kinuta 1-Chome Setagaya-Ku, Tokyo 157 Japan +81 3 3416 9600</td>
<td>Y. Fukui</td>
<td>COBOL, Fortran</td>
</tr>
</tbody>
</table>
British Standards Institution
Quality Assurance (BSIQA)
P.O. Box 375
Milton Keynes
MK14 6LL
United Kingdom
(011) +44 908-22-09-08
(011) +44-908-22-06-71 (Fax)
Telex: 827682 BSIQAS G

W Ada Validation Facility
Language Control Facility
ASD/SCEL
Wright-Patterson AFB, OH 45433-6503
(513) 255-4472

B Association Francais de Normalisation
or (AFNOR)
A Direction Certification
Tour Europe, Cedex 7
BP-92049 Paris la Défense
FRANCE
(011) 33-142915960
(011) 33-142915656 (Fax)
Telex: AFNOR 611 974 F

I IABG-AVF
Industrieanlagen-Betriebsgesellschaft
Dept. ITE
Einsteinstrasse 20
D-8012 Ottobrunn
Federal Republic of Germany
+49-89-6088-2477
e-mail: tonndorf@ajpo.sei.cmu.edu

Ada Information Clearinghouse
P. O. Box 1866
Falls Church, VA 22041
(703) 681-2466

National Technical Information Service
U.S. Department of Commerce
5285 Port Royal Road
Springfield, VA 22161
(703) 487-4650
### 2.7 LANGUAGE PROCESSORS WITH CERTIFICATES
NO NONCONFORMITIES

#### 2.7.1 COBOL PROCESSORS

<table>
<thead>
<tr>
<th>SUPPLIER</th>
<th>PROCESSOR ID; VSR#; SUBSET; EXPIRY DATE</th>
<th>HARDWARE; OPERATING SYSTEM</th>
<th>OTHER ENVIRONMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Computer Associates</td>
<td>CA-Realia COBOL Version 4.2 NIST-95/1806; Intermediate; 7/1/96</td>
<td>IBM PS/2 Model 95; Windows Version 3.1</td>
<td>IBM PS/2 Model 60, 70, 80, 90; Windows Version 3.1</td>
</tr>
<tr>
<td></td>
<td>CA-Realia COBOL Version 4.2 NIST-95/1807; Intermediate; 7/1/96</td>
<td>IBM PS/2 Model 95; Windows NT Version 3.5</td>
<td>IBM PS/2 Model 60, 70, 80, 90; Windows NT Version 3.5</td>
</tr>
<tr>
<td></td>
<td>CA-Visual Realia Version 1.0 NIST-95/1803; Intermediate; 7/1/96</td>
<td>IBM PS/2 Model 95; Windows Version 3.1</td>
<td>IBM PS/2 Model 60, 70, 80, 90; Windows Version 3.1</td>
</tr>
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<td></td>
<td>CA-Realia Workbench Version 2.1 NIST-95/1802; Intermediate; 7/1/96</td>
<td>IBM PS/2 Model 95; OS/2 WARP Version 3.0</td>
<td>IBM PS/2 Model 60, 70, 80, 90; OS/2 WARP Version 3.0</td>
</tr>
<tr>
<td></td>
<td>CA-Realia Workbench Version 1.1 NIST-95/1801; Intermediate; 7/1/96</td>
<td>IBM PS/2 Model 95; DOS Version 6.2</td>
<td>IBM PS/2 Model 60, 70, 80, 90; DOS Version 6.2</td>
</tr>
<tr>
<td></td>
<td>CA-Realia COBOL Version 4.2 NIST-95/1804; Intermediate; 7/1/96</td>
<td>IBM PS/2 Model 95; DOS Version 6.2</td>
<td>IBM PS/2 Model 60, 70, 80, 90; DOS Version 6.2</td>
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<td>CA-Realia COBOL Version 4.2 NIST-95/1805; Intermediate; 7/1/96</td>
<td>IBM PS/2 Model 95; OS/2 WARP Version 3.0</td>
<td>IBM PS/2 Model 60, 70, 80, 90; OS/2 WARP Version 3.0</td>
</tr>
<tr>
<td></td>
<td>Digital Equipment Corporation VAX COBOL Version 5.2; NIST-94/1401; High; 4/1/96</td>
<td>VAX 4000 Model 60; OpenVMS VAX, Version 5.5</td>
<td>VAX 4000 models 200, 300; VAX 6000 models 200, 300, 400, 500; VAX's 8200, 8250, 8300, 8350, 85xx, 8600, 8650, 8700, 8800, 8810, 8820, 8830, 8840; VAX 9000 models 210, 400; VAX/6000 model 310, VAX 11/730, VAX 11/750, VAX 11/785; MicroVAX II, 2000, 3100, 3200, 3500, 3520, 3540; VAXstation II, 2000, 3100, 3200, 3500, 3520, 3540; VAXserver 3600, 3602, 3800, 3900, 4000 models 200, 300; 6000, 210/220, 6000 310/320; 6000 410/420; 6000 510/520; OpenVMS VAX Version 5.5</td>
</tr>
<tr>
<td></td>
<td>DEC COBOL for OpenVMS Alpha Version 2.2; NIST-95/1501; High; 5/1/96</td>
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**Note:** HP - Hewlett Packard
IBM - International Business Machines
COBOU - COBOL Development and Support Organization
SAA - Systems Application Architecture
MVS - Multiple Virtual Storage
VM - Virtual Machine
OS/400 - IBM's operating system for mid-range servers
MPE/iX - IBM's operating system for mid-range servers
HP-UX - HP's Unix-based operating system
Hitachi - Hitachi Ltd.
IBM SAA AD/CYCLE - IBM's Systems Application Architecture for AD/CYCLE
COBOL/370 - IBM's COBOL for 370 series mainframes
COBOL/400 - IBM's COBOL for 400 series mainframes
VS COBOL II - IBM's COBOL for VS COBOL II
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## 2.7.2 FORTRAN PROCESSORS

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*NOTE: Though some of the Suppliers may name the compilers Fortran 90, no testing has been done and no certificates have been issued for Fortran 90. All testing and the certificates are for FIPS 69-1, Fortran (77) only.*
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<td>IBM AIX XL Fortran Compiler/6000 Version 3 Release 2 NIST-94/2122; Full; 11/1/95</td>
<td>IBM RISC System/6000 POWERserver/POWERstation Model 7013/560 IBM AIX for IBM RISC System/6000 Version 3 Release 2 &amp; Version 4 Release 1</td>
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<td>SUPPLIER</td>
<td>PROCESSOR ID; VSR#; SUBSET; EXPIRY DATE</td>
<td>HARDWARE; OPERATING SYSTEM</td>
<td>OTHER ENvironments</td>
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<td>Intergraph Corporation</td>
<td>Clipper Advanced Optimizing Fortran, Version 1.57; NIST-95/1161; Full; 1/1/96</td>
<td>Clipper Model C400-2430; CLIX, Version 7.5</td>
<td>Clipper C300 and C400; CLIX, Version 7.5</td>
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<td>Clipper Advanced Optimizing Fortran, Version 2.01; NIST-95/1162; Full; 1/1/96</td>
<td>Clipper Model C400-2430; CLIX, Version 7.5</td>
<td>Clipper C300 and C400; CLIX, Version 7.5</td>
</tr>
<tr>
<td>Liant Software Corporation</td>
<td>Fortran/400 Version 2 Release 2; NIST-94/1242; Full; 8/1/95</td>
<td>IBM AS/400 Model B4500; IBM OS/400 Version 2 Release 2</td>
<td>IBM AS/400; IBM OS/400 Version 3.0</td>
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<tr>
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<td>Fortran/400 Version 2 Release 3; NIST-94/1243; Full; 8/1/95</td>
<td>IBM AS/400 Model B4500; IBM OS/400 Version 2 Release 3</td>
<td>IBM AS/400; IBM OS/400 Version 3.1</td>
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<tr>
<td>Modular Computer Systems, Inc.</td>
<td>GLS Fortran 77 Version B.0; NIST-95/1071; Full; 2/1/96</td>
<td>Classic Model 9250; MAX 32 Version E.0</td>
<td>Classic 9230, 9260; MAX 32 Version E.0</td>
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<tr>
<td>Sequent Computer Systems, Inc.</td>
<td>EPC Fortran for Sequent Symmetry Version 2.7; NIST-95/1241; Full; 2/1/96</td>
<td>SE20; DYNIX/ptx Version 4.0</td>
<td>S2000/290, /490, /790 SE60, SE90, ELS, SE30, SE70, SE100; DYNIX/ptx Version 4.0</td>
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<tr>
<td>Silicon Graphics Computer Systems Inc.</td>
<td>Fortran 77 Version SC4-FTN-3.19; NIST-94/1441; Full; 10/1/95</td>
<td>40/CRIM Model IP17; IRIX Version 5.3</td>
<td>Voyager, SPARCstation 10, SPARCserver 1000, SPARCcenter 2000; Solaris Version 2.4</td>
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<td>MIPS PRO Fortran 77 Version SC4-FTN-6.0; NIST-94/1442; Full; 10/1/95</td>
<td>Challenge Model IP21; IRIX Version 6.0</td>
<td>SPARCstation 10, SPARCserver 1000, SPARCcenter 2000; Solaris Version 2.4</td>
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<tr>
<td>Sunsoft, a Sun Microsystems, Inc.</td>
<td>SPARCCompiler Fortran Version 3.0.1; NIST-94/1741; Full; 9/1/95</td>
<td>SPARCstation 5; SunOS Version 4.1.3</td>
<td>Voyager, SPARCstation 10, SPARCserver 1000, SPARCcenter 2000; Solaris Version 2.4</td>
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<td>SPARCstation 20; Solaris Version 2.4</td>
<td>SPARCstation 10, SPARCserver 1000, SPARCcenter 2000; Solaris Version 2.4</td>
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<td>SunOS Version 4.1.3</td>
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<td>SUPPLIER</td>
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<td>OTHER ENVIRONMENTS</td>
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<td>SPARC Compiler Fortran</td>
<td>SPARCstation 20; Solaris Version 2.4</td>
<td>SPARCstation 10, SPARCserver 1000, Solaris Version 2.4</td>
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<tr>
<td>MP (SPARCworks iMPact 2.0)</td>
<td>NIST-94/1742; Full; 9/1/95</td>
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<tr>
<td>ProCompiler Fortran Version 2.0.1; NIST-94/1743; Full; 9/1/95</td>
<td>Gateway 2000 486/33E; UnixWare Version 1.1</td>
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<tr>
<td>Tandem Computers, Inc. Fortran Version D30; NIST-95/1782; Full; 7/1/96</td>
<td>Himalaya K1000; Guardian Version D30</td>
<td>CLX800, Cyclone, CLS/R1200, CLX2000, Cyclone R HIMALAYA K110, K120, K1000, K10000 Guardian Version D30</td>
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</tr>
<tr>
<td>UCS Fortran (UFTN) Version 5R3 Release SB5R3; NIST-95/1042; Full; 1/1/96</td>
<td>Unisys 2200 Model 900; 2200 OS EXEC Version 44R3 Release SB5R3</td>
<td>Unisys 2200 Model 500; 2200 OS EXEC Version 44R3 Release SB5R3</td>
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</tr>
</tbody>
</table>
2.7.3 Ada PROCESSORS

NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY (NIST) NOTICE:

In approximately three (3) months, the National Institute of Standards and Technology (NIST) is considering the deletion of those Ada validation registrations including both Witness Tested Registrations and vendor asserted registrations which do not satisfy the NIST validation registration requirements as specified in FIPS PUB 119-1.

The list of Ada compilers that have been validated by the Ada Joint Program Office (AJPO) is presented here. An electronic copy of the Ada part of the VPL is available on the AdaIC Bulletin Board as file VALPROC.HLP. Access to the menu-driven bulletin board requires a computer terminal or personal computer and modem. Users should set their telecommunications package with the following parameters: Baud rate = 300 - 9600 baud; Data Bits = 8; Parity = none; Stop Bits = 1. Then dial 703/614-0215 (Commercial) or 224-0215 (Autovon). First-time users will be prompted to register for an account.

Most files have been compressed using PKZIP and must be uncompressed after downloading. PKZIP is available on the bulletin board and can be obtained by downloading the file PKZ101.EXE. Macintosh Plus users can download the file UNZIP101.SIT.

Copies may also be obtained by purchase from the Defense Technical Information Center (DTIC) and the National Technical Information Service (NTIS) with accession number AD A257 705. NTIS sells documents to the public. DTIC distributes documents only to Military, government, or defense contractors who are registered with them.

National Technical Information Service (NTIS)
U.S. Department of Commerce
5285 Port Royal Road
Springfield, VA 22161
703/487-4650

Defense Technical Information Center (DTIC)
Cameron Station
Alexandria, VA 22314
703/274-7633
AV 284-7633

The NIST Ada Validation Summary Reports are available electronically in ASCII format and may be accessed on the Internet using the following instructions:

Type: ftp speckle.nesl.nist.gov (Internet address is 129.6.59.2)
Login as user: ftp
Type your email address preceded by a dash (-) as the password
Type: cd ada-testing/VSRs
Type: ascii
Type: get and the name of the file you want

Always obtain the latest README.TXT file.
The following database report is an comprehensive list of Ada compilers validated by the AJPO. There are 380 base compilers and 483 derived compilers reported at this time. For the most current information on validated Ada compilers, please contact the AdaIC. Point of contact information for each company precedes its list of validated compilers.

Key to Validation Certificate Number: for Certificate# YYMMDDFX.XXNNN

- YYMDD marks the date of completion of on-site testing.
- F refers to the Ada Validation Facility
- X.XX is the ACVC version.
- NNN is a unique sequence of numbers assigned by the Ada Validation Organization.
Ada PROCESSORS, Continued

Compiler Vendor: AETECH, Inc.

**Compiler Vendor: AETECH, Inc.**

<table>
<thead>
<tr>
<th>Compiler Type</th>
<th>Date of Validation by Registration</th>
<th>Validation Certificate #</th>
<th>Compiler Name</th>
<th>Host</th>
<th>Target</th>
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</thead>
<tbody>
<tr>
<td>Derived</td>
<td>1/26/91</td>
<td>901120W1.11087 (BASE)</td>
<td>IntegAda 386 5.1.0</td>
<td>Northgate 386/25 (under Phar Lap/DOs 3.3)</td>
<td>Same as Host</td>
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<tr>
<td>Derived</td>
<td>2/2/93</td>
<td>901120W1.11087 (BASE)</td>
<td>IntegAda 386 5.1.0</td>
<td>Northgate 386/25 (under MS DOS 3.3)</td>
<td>Same as Host</td>
</tr>
<tr>
<td>Derived</td>
<td>12/14/93</td>
<td>901120W1.11086 (BASE)</td>
<td>XAda, Version 6.1</td>
<td>Any computer system comprising: cpu: Intel 80386 &amp; 80486; fpu: optional; memory: 4 MByte RAM; disk: 40 MByte hard drive (under MS DOS 3.3)</td>
<td>Same as Host</td>
</tr>
<tr>
<td>Derived</td>
<td>1/14/94</td>
<td>901120W1.11086 (BASE)</td>
<td>XAda, Version 6.1</td>
<td>Any computer system comprising: cpu: Intel 80386 or 80486; fpu: optional; memory: 8 MByte RAM; disk: 160 MByte hard drive (under SCO Unix 3.2, Solaris X86, ESIX System V, Release 4.0, &amp; Interactive Unix System V, Release 3.2)</td>
<td>Same as Host</td>
</tr>
<tr>
<td>Base</td>
<td>9/23/93</td>
<td>901120W1.11086</td>
<td>IntegAda POSIX 5.1.0</td>
<td>UnixSys PW32 386 (under SCO Unix 3.2)</td>
<td>Same as Host</td>
</tr>
</tbody>
</table>

Compiler Vendor: Aitech Defense Systems, Inc.

Address: 3080 Olcott St., Suite 105A
City: Santa Clara
State: CA
Zip Code: 95054
Country:
Contact Name: Uri Gries
Phone: (408) 980-6200
E-mail: (No address given)

* Compiler Vendor: AETECH, Inc.

**Compiler Vendor: AETECH, Inc.**

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<tr>
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<td>1/29/91</td>
<td>901120W1.11086 (BASE)</td>
<td>IntegAda 386 5.1.0</td>
<td>Intel 80386, fpu: optional, memory: 4 MByte RAM, disk: 60 MByte hard drive (under SCO Unix 3.2)</td>
<td>Same as Host</td>
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<tr>
<td>Derived</td>
<td>4/27/92</td>
<td>901120W1.11086 (BASE)</td>
<td>IntegAda 386 5.1.0</td>
<td>Intel 80386 &amp; 80486, fpu: optional, memory: 4 MByte RAM, disk: 60 MByte hard drive (under ESIX System V, Release 4.0)</td>
<td>Same as Host</td>
</tr>
<tr>
<td>Derived</td>
<td>1/14/94</td>
<td>901120W1.11086 (BASE)</td>
<td>IntegAda 386, Version 6.1</td>
<td>Intel 80386 or 80486; fpu: Optional; memory: 8 MByte RAM; disk: 160 MByte hard drive (under SCO Unix 3.2, Solaris X86, ESIX System V, Release 4.0, &amp; Interactive Unix System V, Release 3.2)</td>
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<td>Base</td>
<td>9/23/93</td>
<td>901120W1.11086</td>
<td>IntegAda POSIX 5.1.0</td>
<td>UnixSys PW32 386 (under SCO Unix 3.2)</td>
<td>Same as Host</td>
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</tbody>
</table>

Compiler Vendor: Aitech Defense Systems, Inc.

Address: 3080 Olcott St., Suite 105A
City: Santa Clara
State: CA
Zip Code: 95054
Country:
Contact Name: Uri Gries
Phone: (408) 980-6200
E-mail: (No address given)

* Compiler Vendor: AETECH, Inc.

**Compiler Vendor: AETECH, Inc.**

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<td>Base</td>
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</tr>
</tbody>
</table>

Compiler Vendor: Aitech Defense Systems, Inc.

Address: 3080 Olcott St., Suite 105A
City: Santa Clara
State: CA
Zip Code: 95054
Country:
Contact Name: Uri Gries
Phone: (408) 980-6200
E-mail: (No address given)
Ada PROCESSORS, Continued

* Compiler Vendor: Alltech Defense Systems, Inc.
  Compiler Type: Derived
  Date of Validation by Registration: 10/31/90
  Validation Certificate #: 000930W1.11030 (BASE)
  Compiler Name: AI-ADA/88K, Version 2.4
  Host: All DEC MicroVAX, VAXstation, VAXserver, VAX-11, VAX 8000
  & VAX 8000 series (under VMS versions 5.1, 5.2 & 5.3, as supported)
  Target: Tadpole TP8800 (88100-based VME board) & Motorola
  MVE181 (88100-based VME board) (bare machines)

* Compiler Vendor: Alltech Defense Systems, Inc.
  Compiler Type: Base
  Validation Certificate #: 911012W1.11224
  Compiler Name: AI-ADA/96K, Version 3.0
  Host: VAXstation 3100 Cluster (under VMS 5.3)
  Target: DSP96002 ADS board (bare machine)

* Compiler Vendor: Alltech Defense Systems, Inc.
  Compiler Type: Base
  Validation Certificate #: 911012W1.11225
  Compiler Name: AI-ADA/96K, Version 3.0
  Host: Sun-4/330 (under SunOS 4.1.1)
  Target: DSP96002 ADS board (bare machine)

Compiler Vendor: Alenia Aeritalia & Selenia S.p.A
Address: Via Tiburtina km. 12.4
City: 00131 Roma
State: (No address given)
Contact Name: Nicola Botta
Phone: +39 6 4197520
E-mail: (No address given)

* Compiler Vendor: Alenia Aeritalia & Selenia S.p.A
  Compiler Type: Base
  Validation Certificate #: 920500511.11259
  Compiler Name: DACS VAXVMS to 80x86 PM MARA Ada Cross
  Compiler, Version 4.0
  Host: MicroVAX 4000/200 (under VMS Version 5.4)
  Target: Alenia MARA (80286-based) (under Alenia Operating System,
  Version 8.6 System)

* Compiler Vendor: Alenia Aeritalia & Selenia S.p.A
  Compiler Type: Derived
  Date of Validation by Registration: 8/20/92
  Validation Certificate #: 920505011.11259 (BASE)
  Compiler Name: DACS 80x86PM, Version 4.6
  Host: DEC VAX-11, VAXserver, VAXstation, MicroVAX, VAX 4000,
  VAX 6000, VAX 9000, & VAX 9000 Series of computers (under
  VMS 5.4)
  Target: Alenia MARA 80386 - 80486-based computers (under Alenia
  Operating System 8.6)

Compiler Vendor: Alliant Computer Systems Corporation
Address: (now GS Computer)
GS Computer
9 Congress Street
City: Nashua
State: NH
Zip Code: 03052
Country: (No address given)
Contact Name: Riccardo Corso
Phone: (603) 881-9912
E-mail: (No address given)

* Compiler Vendor: Alliant Computer Systems Corporation
  Compiler Type: Base
  Validation Certificate #: 901218W1.11105
  Compiler Name: Alliant FX/Ada-2800 Compiler, Version 1.0
  Host: Alliant FX/2800 (under Concentrix Release 2.0)
  Target: Same as Host

* Compiler Vendor: Alliant Computer Systems Corporation
  Compiler Type: Base
  Validation Certificate #: 901218W1.11106
  Compiler Name: Alliant FX/Ada Compiler, Version 2.3
  Host: Alliant FX/80 (under Concentrix Release 5.7)
  Target: Same as Host

Compiler Vendor: Alsys
Address: Thomson Software Products
67 South Bedford Street
City: Burlington
State: MA
Zip Code: 01803-5152
Country: (No address given)
Contact Name: Pat Michelowski
Phone: (617) 457-2700
E-mail: patm@alsys.com

* Compiler Vendor: Alsys
  Compiler Type: Base
  Validation Certificate #: 90050011.11000
  Compiler Name: AlsysCOMP_002, Version 1.82
  Host: VAX 8530 (under VMS, Version 5.1)
  Target: Same as Host

* Compiler Vendor: Alsys
  Compiler Type: Base
  Validation Certificate #: 900627N1.11013
  Compiler Name: AlsysCOMP_004, Version 5.3
  Host: IBM 9370 Model 90 (under AIX/370 Version 1.2)
  Target: Same as Host

* Compiler Vendor: Alsys
  Compiler Type: Base
  Validation Certificate #: 90068141.11040
  Compiler Name: AlsysCOMP_025, Version 1.83
  Host: MIPS M/120-5 (under RISC/os, Version 4.0)
  Target: Same as Host

* Compiler Vendor: Alsys
  Compiler Type: Base
  Validation Certificate #: 901022A1.11043
  Compiler Name: AlsysCOMP_046, Version 5.3
  Host: Sony NEWS NWS-1850 (under NEWS-OS 3.3)
  Target: Same as Host

* Compiler Vendor: Alsys
  Compiler Type: Base
  Validation Certificate #: 901022A1.11044
  Compiler Name: AlsysCOMP_004, Version 5.3
  Host: Apollo DN4000 (under Domain/OS SR10.2)
  Target: Same as Host

2 - 19
Ada PROCESSORS, Continued

* Compiler Vendor: Alsys
  Compiler Type: Derived
  Date of Validation by Registration: 6/19/91
  Validation Certificate #: 901022A1.11044 (BASE)
  Compiler Name: AlsyCOMP_004, Version 5.3
  Host: Apollo DN3000, DN3500, DN4000 & DN4500 (under Domain/OS SR10.2 & SR10.3)
  Target: Any Host

* Compiler Vendor: Alsys
  Compiler Type: Base
  Date of Validation by Registration: 1/6/93
  Validation Certificate #: 901022A1.11045 (BASE)
  Compiler Name: AlsyCOMP_005, Version 5.3
  Host: Bull DPX2 320 (under B.O.S. 02.00.05)
  Target: Same as Host

* Compiler Vendor: Alsys
  Compiler Type: Derived
  Date of Validation by Registration: 6/19/91
  Validation Certificate #: 901022A1.11045 (BASE)
  Compiler Name: AlsyCOMP_005, Version 5.3
  Host: Bull DPX 2/210, /220, /320, /340 & /350 (under B.O.S 02.00.05 & 2.00.10)
  Target: Any Host

* Compiler Vendor: Alsys
  Compiler Type: Base
  Validation Certificate #: 901022A1.11046
  Compiler Name: AlsyCOMP_002, Version 5.3
  Host: HP 9000 Series 400 (under HP-UX 6.5)
  Target: Same as Host

* Compiler Vendor: Alsys
  Compiler Type: Derived
  Date of Validation by Registration: 6/19/91
  Validation Certificate #: 901022A1.11046 (BASE)
  Compiler Name: AlsyCOMP_002, Version 5.3
  Host: HP 9000 Series 300, all models (under HP-UX 6.5 & 7.0)
  Target: Any Host

* Compiler Vendor: Alsys
  Compiler Type: Derived
  Date of Validation by Registration: 1/6/93
  Validation Certificate #: 901022A1.11046 (BASE)
  Compiler Name: AlsyCOMP_002, Version 5.3
  Host: HP 9000 Series 300 & 400 (all models) (under HP-UX 8.0)
  Target: Any Host

* Compiler Vendor: Alsys
  Compiler Type: Base
  Validation Certificate #: 901022A1.11047
  Compiler Name: AlsyCOMP_005, Version 5.3
  Host: Sun-3/260 (under SunOS 3.2)
  Target: Same as Host

* Compiler Vendor: Alsys
  Compiler Type: Derived
  Date of Validation by Registration: 6/19/91
  Validation Certificate #: 901022A1.11047 (BASE)
  Compiler Name: AlsyCOMP_005, Version 5.3
  Host: Sun 3/50, /80, /75, /80, /160, /260, /280, /470 & /480 (under SunOS 3.2, 3.5, 4.0 & 4.1)
  Target: Any Host

* Compiler Vendor: Alsys
  Compiler Type: Derived
  Date of Validation by Registration: 1/9/93
  Validation Certificate #: 901022A1.11047 (BASE)
  Compiler Name: AlsyCOMP_005, Version 5.3
  Host: Sun Microsystems Sun-3 computer family (under SunOS 4.1.1)
  Target: Any Host

* Compiler Vendor: Alsys
  Compiler Type: Base
  Date of Validation by Registration: 6/19/91
  Validation Certificate #: 901022A1.11048 (BASE)
  Compiler Name: AlsyCOMP_035, Version 5.3
  Host: CETIA Unigraph 6000 (under Unigraph/X 3.1)
  Target: Same as Host

* Compiler Vendor: Alsys
  Compiler Type: Derived
  Date of Validation by Registration: 1/9/93
  Validation Certificate #: 901022A1.11048 (BASE)
  Compiler Name: AlsyCOMP_035, Version 5.3
  Target: Any Host

* Compiler Vendor: Alsys
  Compiler Type: Base
  Validation Certificate #: 901102W1.11055
  Compiler Name: AlsyCOMP_016, Version 5.1
  Host: Compaq Deskpro 386 (under MS-DOS 3.30, Phar Lap 2.0)
  Target: Same as Host

* Compiler Vendor: Alsys
  Compiler Type: Derived
  Date of Validation by Registration: 7/17/92
  Validation Certificate #: 901102W1.11055 (BASE)
  Compiler Name: AlsyCOMP_016, Version 5.1.1
  Host: Any Computer System that executes the Intel 80386 or 80486 instruction set (under MS/DOS 5.0 & Phar Lap 4.0)
  Target: Any Host

* Compiler Vendor: Alsys
  Compiler Type: Derived
  Date of Validation by Registration: 8/1/94
  Validation Certificate #: 901102W1.11055 (BASE)
  Compiler Name: AlsyCOMP_085, Version 5.1.3
  Host: Any computer that executes the Intel 80386, 80486, or Pentium instruction set (under MS-DOS 6.2 and PharLap TNT 6.1, with MS-Windows 3.1)
  Target: Any Host machine (under MS-DOS 3.3 or higher and PharLap TNT 6.1)

* Compiler Vendor: Alsys
  Compiler Type: Base
  Validation Certificate #: 901102W1.11056
  Compiler Name: AlsyCOMP_016, Version 5.1
  Host: CompuAdd 320 (under MS-DOS 3.30, Phar Lap 2.0)
  Target: Same as Host

* Compiler Vendor: Alsys
  Compiler Type: Derived
  Date of Validation by Registration: 6/19/91
  Validation Certificate #: 901022A1.11047 (BASE)
  Compiler Name: AlsyCOMP_005, Version 5.3
  Host: Sun-3/260 (under SunOS 3.2)
  Target: Same as Host
Ada PROCESSORS, Continued

* Compiler Vendor: Alsys
  Compiler Type: Derived
  Date of Validation by Registration: 2/22/91
  Validation Certificate #: 901102W1.11056 (BASE)
  Compiler Name: AlsyCOMP_016, Version 5.1
  Host: HP Vectra RS/20, RS/20C, RS/25 & RS/25C; AST Premium 386; and Unisys 386 & Desktop III (under MS-DOS 3.30, Phar Lap 2.0)
  Target: Any Host

* Compiler Vendor: Alsys
  Compiler Type: Derived
  Date of Validation by Registration: 5/17/91
  Validation Certificate #: 901102W1.11056 (BASE)
  Compiler Name: AlsyCOMP_016, Version 5.1
  Host: Any Computer System Comprising: cpu: Intel 80386; fpu: optional; memory: 5 MByte RAM; disk: 10 MByte (under MS-DOS 3.30, Phar Lap 2.0)
  Target: Same as Host

* Compiler Vendor: Alsys
  Compiler Type: Base
  Validation Certificate #: 901102W1.11057
  Compiler Name: AlsyCOMP_016, Version 5.1
  Host: ALR Power Vela 486 (under MS-DOS 3.30, Phar Lap 2.0)
  Target: Same as Host

* Compiler Vendor: Alsys
  Compiler Type: Base
  Validation Certificate #: 901102W1.11058
  Compiler Name: AlsyCOMP_003, Version 5.1
  Host: HP Vectra RS/25C (under MS-DOS 3.30)
  Target: Same as Host

* Compiler Vendor: Alsys
  Compiler Type: Derived
  Date of Validation by Registration: 2/22/91
  Validation Certificate #: 901102W1.11058
  Compiler Name: AlsyCOMP_003, Version 5.1
  Host: Any Computer System that executes the Intel 80286, 80386, or 80486 instruction set (under MS/DOS 5.0)
  Target: Any Host

* Compiler Vendor: Alsys
  Compiler Type: Base
  Validation Certificate #: 901102W1.11059
  Compiler Name: AlsyCOMP_003, Version 5.1
  Host: Zenith 2/248 Model 50 (under MS-DOS 3.30)
  Target: Same as Host

* Compiler Vendor: Alsys
  Compiler Type: Derived
  Date of Validation by Registration: 1/25/91
  Validation Certificate #: 901102W1.11059
  Compiler Name: AlsyCOMP_003, Version 5.1
  Host: ICS SB286SC/12 (under MS-DOS 3.30)
  Target: Same as Host

* Compiler Vendor: Alsys
  Compiler Type: Derived
  Date of Validation by Registration: 2/22/91
  Validation Certificate #: 901102W1.11059
  Compiler Name: AlsyCOMP_003, Version 5.1
  Host: HP Vectra ES/12; and IBM PC/AT (all models) (under MS-DOS 3.30)
  Target: Any Host

* Compiler Vendor: Alsys
  Compiler Type: Base
  Validation Certificate #: 901114N1.11065
  Compiler Name: AlsyCOMP_037, Version 5.2
  Host: INMOS T800 translator on a B405 TRAM (bare) with an INMOS B008 Communications link implemented in an IBM PC/AT (under MS-DOS 3.1 and INMOS Iserver V1.3)
  Target: INMOS T800 translator on a B405 TRAM (bare) using an IBM PC/AT under MS-DOS 3.1 running INMOS Iserver 1.3 for file-server support via an INMOS B008 board link

* Compiler Vendor: Alsys
  Compiler Type: Derived
  Date of Validation by Registration: 1/25/91
  Validation Certificate #: 901114N1.11065
  Compiler Name: AlsyCOMP_037, Version 5.3
  Host: INMOS T800 translator on a B405 TRAM (bare) with an INMOS B008 Communications link implemented in an IBM PC/AT (under MS-DOS 3.1 and INMOS Iserver V1.3)
  Target: INMOS T800 translator on a B405 TRAM (bare) using an IBM PC/AT under MS-DOS 3.1 running INMOS Iserver 1.3 for file-server support via an INMOS B008 board link

* Compiler Vendor: Alsys
  Compiler Type: Base
  Date of Validation by Registration: 3/30/92
  Validation Certificate #: 901114N1.11065
  Compiler Name: AlsyCOMP_037, Version 5.4.2
  Host: INMOS T800 translator on a B405 TRAM board (bare), with an INMOS B008 Communications link implemented in an IBM PC/AT (under MS-DOS 3.1 and INMOS Iserver V1.42h)
  Target: INMOS T800 translator on a B405 TRAM (bare) using an IBM PC/AT under MS-DOS 3.1 running INMOS Iserver V1.42h for file-server support via an INMOS B008 board link; INMOS T425 translator on a B403 TRAM (bare) using an IBM PC/AT under MS-DOS 3.1 running INMOS Iserver V1.42h for file-server support via an INMOS B008 board link

* Compiler Vendor: Alsys
  Compiler Type: Base
  Validation Certificate #: 901116A1.11066
  Compiler Name: AlsyCOMP_012, Version 5.3
  Host: HP 9000s350 (under HP-UX 6.5)
  Target: Motorola MMVE101 (68000) (bare machine, using ARTK Version 5.3)

* Compiler Vendor: Alsys
  Compiler Type: Derived
  Date of Validation by Registration: 7/31/91
  Validation Certificate #: 901116A1.11066
  Compiler Name: AlsyCOMP_012, Version 5.3
  Host: HP 9000 Series 300, Models 340, 345, 360, 370 & 375 (under HP-UX 6.5 & 7.0)
  Target: Motorola MMVE101 (68000), MMVE121 (68010), MMVE135-1 (8020/68881) & MMVE147-1 (68030/68882) (bare machines, using ARTK 5.3)

* Compiler Vendor: Alsys
  Compiler Type: Derived
  Date of Validation by Registration: 11/21/91
  Validation Certificate #: 901116A1.11066
  Compiler Name: AlsyCOMP_012, Version 5.3
  Host: HP 9000 Series 300 (all models) (under HP-UX 6.5 & 7.0)
  Target: Motorola M86332EVS Evaluation System Customers (CPU32) (bare machine, using ARTK 5.3)
* Compiler Vendor: Alsys
  Compiler Type: Derived
  Date of Validation by Registration: 3/12/93
  Validation Certificate #: 901116A1.11066 (BASE)
  Compiler Name: AlsYCOMP_012, Version 5.5.1
  Host: HP 9000 Series 400 (all models) (under HP-UX 8.0)
  Target: Motorola MMVE131, MVME133, MVME133XT, MVME135, & MVME147 (88020 & 68030 cpu's) (bare machines, using VRTX32); Motorola MVME101, MVME121, MVME131, MVME133, MVME133XT, MVME135, MVME147, & MVME167 (68000, 68010, 68020, 68030, & 68040 cpu's) (bare machines, using ARTK 5.5.1)

* Compiler Vendor: Alsys
  Compiler Type: Derived
  Date of Validation by Registration: 3/12/93
  Validation Certificate #: 901116A1.11066 (BASE)
  Compiler Name: AlsYCOMP_048, Version 5.5.1
  Host: Sun SPARCstation & SPARCCserver computer families; SPARCserver 2000 (under SunOS 4.1.2); Solbourne Series 5/100, /530, /650, /670, /800, & S4000 (under OS/MP 4.1A.1)
  Target: Motorola MMVE101, MVME121, MVME131, MVME133, MVME133XT, MVME135, M68332EV5, MVME147, & MVME167 (68000, 68010, 68020, 68030, & 68040 cpu's) (bare machines, using ARTK 5.5.1)

* Compiler Vendor: Alsys
  Compiler Type: Derived
  Date of Validation by Registration: 4/28/93
  Validation Certificate #: 901116A1.11066 (BASE)
  Compiler Name: AlsYCOMP_063, Version 5.5.1
  Host: HP 9000 Series 700 (all models) (under HP-UX 8.0)
  Target: Motorola MMVE101, MVME121, MVME131, MVME133, MVME133XT, MVME135, M68332EV5, MVME147, & MVME167 (68000, 68010, 68020, 68030, & 68040-based single-board computers) (bare machines, using ARTK 5.5.1)

* Compiler Vendor: Alsys
  Compiler Type: Derived
  Date of Validation by Registration: 12/2/93
  Validation Certificate #: 901116A1.11066 (BASE)
  Compiler Name: AlsYCOMP_048, Version 5.5.2
  Host: Sun Microsystems Sun-4, SPARCstation, & SPARCCserver series of computers; and SPARCserver 2000 (under SunOS 4.1.2)
  Target: Motorola MMVE101, MVME121, MVME131, MVME133, MVME133XT, MVME135, MVME147, MVME167, & MEN A4 (68332) (bare machines, using ARTK 5.5.2)

* Compiler Vendor: Alsys
  Compiler Type: Derived
  Date of Validation by Registration: 12/2/93
  Validation Certificate #: 901116A1.11066 (BASE)
  Compiler Name: AlsYCOMP_079, Version 5.5.2
  Target: Motorola MMVE101, MVME121, MVME131, MVME133, MVME133XT, MVME135, MVME147, MVME167, & MEN A4 (68332) (bare machines, using ARTK 5.5.2)

* Compiler Vendor: Alsys
  Compiler Type: Derived
  Date of Validation by Registration: 12/2/93
  Validation Certificate #: 901116A1.11066 (BASE)
  Compiler Name: AlsYCOMP_080, Version 5.5.2
  Host: Sun Microsystems Sun-4, SPARCstation, & SPARCCserver series of computers; SPARCserver 2000 (under Solaris 2.3)
  Target: Motorola MMVE101, MVME121, MVME131, MVME133, MVME133XT, MVME135, MVME147, MVME167, & MEN A4 (68332) (bare machines, using ARTK 5.5.2)

* Compiler Vendor: Alsys
  Compiler Type: Base
  Date of Validation by Registration: 7/31/93
  Validation Certificate #: 901116A1.11067 (BASE)
  Compiler Name: AlsYCOMP_036, Version 5.3
  Host: Apollo DN4000 (under Domain/OS SR10.2)
  Target: Motorola MMVE147-1 (68030/68882) (bare machine, using ARTK Version 5.3)

* Compiler Vendor: Alsys
  Compiler Type: Derived
  Date of Validation by Registration: 3/12/93
  Validation Certificate #: 901116A1.11067 (BASE)
  Compiler Name: AlsYCOMP_036, Version 5.3
  Host: HP 9000 Series 400 (all models) (under DomainOS SR 10.4)
  Target: Motorola MMVE101, MVME121, MVME131, MVME133, MVME133XT, MVME135, M68332EV5, MVME147, & MVME167 (68000, 68010, 68020, 68030, & 68040 cpu's) (bare machines, using ARTK 5.5.3)

* Compiler Vendor: Alsys
  Compiler Type: Base
  Date of Validation by Registration: 3/2/93
  Validation Certificate #: 901116A1.11068 (BASE)
  Compiler Name: AlsYCOMP_015, Version 5.3
  Host: Sun 3/260 (under SunOS 3.2)
  Target: Motorola MMVE121 (68010) (bare machine, using ARTK Version 5.3)

* Compiler Vendor: Alsys
  Compiler Type: Derived
  Date of Validation by Registration: 7/31/93
  Validation Certificate #: 901116A1.11068 (BASE)
  Compiler Name: AlsYCOMP_015, Version 5.3
  Host: Sun 3/50, /80, /75, /80, /160, /260, /320, /470 & /480 (under SunOS 3.2, 3.5, 4.0 & 4.1)
  Target: Motorola MMVE101 (68000), MVME121 (68010), MVME135-1 (68020/68881) & MVME147-1 (68030/68882) (bare machines, using ARTK 5.3)

* Compiler Vendor: Alsys
  Compiler Type: Derived
  Date of Validation by Registration: 3/12/93
  Validation Certificate #: 901116A1.11068 (BASE)
  Compiler Name: AlsYCOMP_015, Version 5.5.1
  Host: Sun Microsystems Sun-3 computer family (under SunOS 4.1.1)
  Target: Motorola MMVE131, MVME133, MVME133XT, MVME135, & MVME147 (68020 & 68030 cpu's) (bare machines, using VRTX32); Motorola MMVE101, MVME121, MVME131, MVME133, MVME133XT, MVME135, M68332EV5, MVME147, & MVME167 (68000, 68010, 68020, 68030, & 68040 cpu's) (bare machines, using ARTK 5.5.1)
Ada PROCESSORS, Continued

* Compiler Vendor: Alsys
  Compiler Type: Derived
  Date of Validation by Registration: 11/4/91
  Validation Certificate #: 901221W1.11103 (BASE)
  Compiler Name: AlsyCOMP_034, Version 5.1
  Host: Everex AGI 3000D, Compaq Deskpro 386 & SAI Technologies
  Target: Each Host, self-targeted

* Compiler Vendor: Alsys
  Compiler Type: Derived
  Date of Validation by Registration: 11/4/91
  Validation Certificate #: 901221W1.11103 (BASE)
  Compiler Name: AlsyCOMP_034, Version 5.1
  Host: Prime MBX (under Prime Unix V4)
  Target: Same as Host

* Compiler Vendor: Alsys
  Compiler Type: Derived
  Date of Validation by Registration: 7/17/92
  Validation Certificate #: 901221W1.11103 (BASE)
  Compiler Name: AlsyCOMP_034, Version 5.1.2
  Host: Any Computer System comprising: cpu: Intel 80386 or 80486; tpu: optional (under a Unix 3.2-based OS)
  Target: Any Host

* Compiler Vendor: Alsys
  Compiler Type: Derived
  Date of Validation by Registration: 12/5/92
  Validation Certificate #: 901221W1.11103 (BASE)
  Compiler Name: AlsyCOMP_034, Version 5.5
  Host: Zenith Data Systems Z-Station 433 DEh (under SCO Unix 3.2.4 running SecureWare CMW+ Version 2.2)
  Target: Same as Host

* Compiler Vendor: Alsys
  Compiler Type: Derived
  Date of Validation by Registration: 6/30/93
  Validation Certificate #: 901221W1.11103 (BASE)
  Compiler Name: AlsyCOMP_034, Version 5.5
  Host: Any computer system that executes the Intel 80386 or i486 instruction set (under SCO Open Desktop 2.0 & SCO Unix 3.2, SCO Open Desktop 2.0 & SCO Unix 3.2.4, Interactive Unix 3.2.2, and AT&T Unix System V Release 4.0)
  Target: Any Host

* Compiler Vendor: Alsys
  Compiler Type: Derived
  Date of Validation by Registration: 9/23/93
  Validation Certificate #: 901221W1.11103 (BASE)
  Compiler Name: AlsyCOMP_034, Version 5.1.2
  Host: SAIC LCU V2 (under SCO Open Desktop 2.0 (SCO Unix 3.2.4))
  Target: Same as Host

* Compiler Vendor: Alsys
  Compiler Type: Base
  Date of Validation by Registration: 12/5/92
  Validation Certificate #: 901221W1.11104 (BASE)
  Compiler Name: AlsyCOMP_043, Version 5.3
  Host: Apple Macintosh IICx (under Macintosh System Software 6.0.5)
  Target: Same as Host

* Compiler Vendor: Alsys
  Compiler Type: Base
  Validation Certificate #: 9010129W1.11113
  Compiler Name: AlsyCOMP_034, Version 5.1
  Host: IBM PS/2 Model 80 (under LynxOS Version 2.0 + Threads Release 11)
  Target: Any Host

* Compiler Vendor: Alsys
  Compiler Type: Derived
  Date of Validation by Registration: 6/30/93
  Validation Certificate #: 9010129W1.11113 (BASE)
  Compiler Name: AlsyCOMP_070, Version 5.5.3
  Host: Any computer system that executes the Intel 80386 or i486 instruction set (under LynxOS, Version 2.1)
  Target: Same as Host

* Compiler Vendor: Alsys
  Compiler Type: Base
  Validation Certificate #: 91013111.11127
  Compiler Name: AlsyCOMP_055, Version 1.82
  Host: VAX 8530 (under VMS, Version 5.3.1)
  Target: KWS EB68020 (under OS-9/65020, Version 2.3)

* Compiler Vendor: Alsys
  Compiler Type: Base
  Validation Certificate #: 91020111.11128
  Compiler Name: AlsyCOMP_055, Version 1.82
  Host: VAX 8530 (under VMS, Version 5.3.1)
  Target: KWS EB68020 (under OS-9/65020, Version 2.3)

* Compiler Vendor: Alsys
  Compiler Type: Base
  Validation Certificate #: 910323W1.11131
  Compiler Name: AlsyCOMP_029, Version 5.3
  Host: CompuAdd 325 (under DOS 3.31)
  Target: Intel 86c886/116 (bare machine, using ARTK 5.3)

* Compiler Vendor: Alsys
  Compiler Type: Derived
  Date of Validation by Registration: 12/5/92
  Validation Certificate #: 910323W1.11131 (BASE)
  Compiler Name: AlsyCOMP_029, Version 5.3.1
  Host: Any Computer System that executes the Intel 80386 or 80486 instruction set (under MS-DOS version 5.0 & Phar Lap version 4.0)
  Target: Any 80486 single board computer (bare machine, using ARTK 5.3)

* Compiler Vendor: Alsys
  Compiler Type: Base
  Validation Certificate #: 910323W1.11132
  Compiler Name: AlsyCOMP_030, Version 5.3
  Host: MicroVAX II (under VMS 5.2)
  Target: Intel ISBC 368/31 (bare machine, using ARTK 5.3)
Ada PROCESSORS, Continued

* Compiler Vendor: Alsys
  Compiler Type: Derived
  Date of Validation by Registration: 12/5/92
  Validation Certificate #: 010323W1.11132 (BASE)
  Compiler Name: AlsyCOMP_030, Version 5.3.1
  Host: MicroVAX II (under VMS 5.2)
  Target: Any 80386 single board computer (bare machine, using ARTK 5.3)

* Compiler Vendor: Alsys
  Compiler Type: Derived
  Date of Validation by Registration: 4/14/94
  Validation Certificate #: 010323W1.11132 (BASE)
  Compiler Name: AlsyCOMP_029, Version 5.3.1
  Host: Any computer system that executes the Intel 80386 or 80486 instruction set (under MS-DOS version 5.0 or higher and PharLap version 4.0)
  Target: Any Intel486 DX2 single board computer (bare machine, using ARTK 5.3)

* Compiler Vendor: Alsys
  Compiler Type: Derived
  Date of Validation by Registration: 4/14/94
  Validation Certificate #: 010323W1.11132 (BASE)
  Compiler Name: AlsyCOMP_030, Version 5.3.1
  Host: Sun Microsystems Sun-4, SPARCstation, & SPARCserver computer families (under SunOS 4.1)
  Target: Any Intel486 DX2 single board computer (bare machine, using ARTK 5.3)

* Compiler Vendor: Alsys
  Compiler Type: Base
  Validation Certificate #: 010323W1.11133
  Compiler Name: AlsyCOMP_033, Version 5.3
  Host: Sun 3/140 (under SunOS 4.1)
  Target: Intel iSBC 386/12 (bare machine, using ARTK 5.3)

* Compiler Vendor: Alsys
  Compiler Type: Derived
  Date of Validation by Registration: 11/27/92
  Validation Certificate #: 010323W1.11133 (BASE)
  Compiler Name: AlsyCOMP_052, Version 5.3.1
  Host: Sun Microsystems Sun-4, SPARCserver, & SPARCstation computer families (under Solaris 2.1)
  Target: Intel iSBC 386/31, ISBC 386/1xx, ISBC 486/1xx (bare machines, using ARTK 5.3)

* Compiler Vendor: Alsys
  Compiler Type: Derived
  Date of Validation by Registration: 4/21/94
  Validation Certificate #: 010323W1.11133 (BASE)
  Compiler Name: AlsyCOMP_048, Version 5.5.1
  Host: Sun Microsystems Sun-4, SPARCstation, & SPARCserver computer families (under Solaris 2.1)
  Target: Intel iSBC 386/31, ISBC 386/1xx, ISBC 486/1xx (bare machine, using ARTK 5.3)

* Compiler Vendor: Alsys
  Compiler Type: Base
  Validation Certificate #: 010407H1.11144
  Compiler Name: AlsyCOMP_049, Version 1.83
  Host: VAX 8530 (under VMS Version 5.3-1)
  Target: Integrated Device Technology IDT7R5301 System (R3000/R3010) (bare machine)

* Compiler Vendor: Alsys
  Compiler Type: Derived
  Date of Validation by Registration: 1/24/92
  Validation Certificate #: 010407H1.11144 (BASE)
  Compiler Name: AlsyCOMP_049, Version 1.83-01
  Host: VAX 8530 (under VMS 5.3-1)
  Target: Lockheed Sanders STAR MVP (R3000/R3010) (bare machine)

* Compiler Vendor: Alsys
  Compiler Type: Derived
  Date of Validation by Registration: 12/30/92
  Validation Certificate #: 01062511.11193 (BASE)
  Compiler Name: AlsyCOMP_057, Version 1.83
  Host: DECstation 3100 (under ULTRIX Version 4.0)
  Target: Same as Host

* Compiler Vendor: Alsys
  Compiler Type: Derived
  Date of Validation by Registration: 6/14/94
  Validation Certificate #: 01072111.11194 (BASE)
  Compiler Name: TeleGen2 Ada Host Development System for MacII Systems, Version 4.1
  Host: Macintosh IIx & IIx (under A/DX 3.0 Secure)
  Target: Same as Host

* Compiler Vendor: Alsys
  Compiler Type: Derived
  Date of Validation by Registration: 8/24/92
  Validation Certificate #: 010800W1.11195 (BASE)
  Compiler Name: AlsyCOMP_024, Version 5.4
  Host: IBM RISC System 6000, model 520 (under AIX v3.1)
  Target: Same as Host

* Compiler Vendor: Alsys
  Compiler Type: Derived
  Date of Validation by Registration: 12/6/94
  Validation Certificate #: 010808W1.11195 (BASE)
  Compiler Name: AlsyCOMP_024, Version 5.4
  Host: IBM RISC System 6000 (all models) (under AIX 3.2)
  Target: Any Host

* Compiler Vendor: Alsys
  Compiler Type: Derived
  Date of Validation by Registration: 8/24/92
  Validation Certificate #: 010800W1.11195 (BASE)
  Compiler Name: AlsyCOMP_024, Version 5.6
  Host: IBM RISC System/6000 series 2xx, 3xx, 5xx, Rxx; CETIA Power MCA Workstation, models SSW225, 225, 2230, 2250, 334H, 3355, 3360, 3365, 3370, 3375, 5580, 5590, 9990 (under AIX Version 3.2.5)
  Target: Any host
Ada PROCESSORS, Continued

* Compiler Vendor: Alsys
  Compiler Type: Derived
  Date of Validation by Registration: 3/31/85
  Validation Certificate #: 910809W1.11195 (BASE)
  Compiler Name: AlsyCOMP_078, Version 5.6
  Host: IBM RISC System/6000 series 2xx, 3xx, 5xx, & 6xx, and CETIA
        Power MCA models SBW 225, 2225, 2230, 2250, 334H, 3355, 3360, 3365, 3370, 3375, 5580, 5584, & 9990 (under AIX 3.2.5)
  Target: CETIA Power Engine (VGPW2/VMTR2) (under UNI/RT 5.4 CETIA ID 94294, Release 5.4c)

* Compiler Vendor: Alsys
  Compiler Type: Base
  Validation Certificate #: 910809W1.11196
  Compiler Name: AlsyCOMP_058, Version 5.3
  Host: Unisys B39 (under BTOS II, v3.2.0)
  Target: Same as Host

* Compiler Vendor: Alsys
  Compiler Type: Base
  Validation Certificate #: 911001W1.11233
  Compiler Name: NATO SWG on APSE Compiler for Sun3/SunOS, Version S2C1.82-02
  Host: Sun-3/60 (under SunOS Version 4.0.3, with CAIS Version 5.3D)
  Target: Sun-3/60 (under SunOS Version 4.0.3)

* Compiler Vendor: Alsys
  Compiler Type: Base
  Validation Certificate #: 911107W1.11227
  Compiler Name: AlsyCOMP_062, Version 5.35
  Host: HP Vectra RS/25C (under DOS 3.30)
  Target: Unisys B39 (under BTOS II, v3.2.0)

* Compiler Vendor: Alsys
  Compiler Type: Derived
  Date of Validation by Registration: 12/12/93
  Validation Certificate #: 911107W1.11227 (BASE)
  Compiler Name: AlsyCOMP_062, Version 5.5.2A
  Host: HP 9000 Series 700, all models (under HP-UX, Version 9.01)
  Target: HP 9000 Series 700, all models (under HP-UX, Version 9.01)

* Compiler Vendor: Alsys
  Compiler Type: Derived
  Date of Validation by Registration: 4/1/94
  Validation Certificate #: 911107W1.11227 (BASE)
  Compiler Name: AlsyCOMP_062, Version 5.5.2A
  Host: HP 9000 Series 700, all models (under HP-UX, Version 10.0)
  Target: Any Host

* Compiler Vendor: Alsys
  Compiler Type: Derived
  Date of Validation by Registration: 12/6/94
  Validation Certificate #: 911107W1.11227 (BASE)
  Compiler Name: HP 9000 Series 700 Ada Compiler, Version 5.5
  Host: HP 9000 Series 700 Model 715/75 (under HP-UX A.90.03 A (release 9.03))
  Target: Same as Host

* Compiler Vendor: Alsys
  Compiler Type: Derived
  Date of Validation by Registration: 12/26/93
  Validation Certificate #: 911107W1.11227 (BASE)
  Compiler Name: AlsyCOMP_062, Version 5.35
  Host: HP 9000 Series 700, all models (under HP-UX, Version A.B8.05 (release 8.05))
  Target: Same as Host

* Compiler Vendor: Alsys
  Compiler Type: Derived
  Date of Validation by Registration: 11/23/92
  Validation Certificate #: 911107W1.11227 (BASE)
  Compiler Name: AlsyCOMP_062, Version 5.35
  Host: HP 9000 Series 700, all models (under HP-UX, Version A.B8.05 (release 8.05)); HP 9000 Series 800, all models (under HP-UX, Version A.B8.00 (release 8.00))
  Target: HP 9000 Series 700, all models (under HP-UX, Version A.B8.05 (release 8.05))

* Compiler Vendor: Alsys
  Compiler Type: Derived
  Date of Validation by Registration: 2/26/93
  Validation Certificate #: 911107W1.11227 (BASE)
  Compiler Name: AlsyCOMP_062, Version 5.5.2A
  Host: HP 9000 Series 700, all models (under HP-UX, Version A.B8.05 (release 8.05)); HP 9000 Series 800, all models (under HP-UX, Version A.B8.00 (release 8.00))
  Target: Same as Host

* Compiler Vendor: Alsys
  Compiler Type: Derived
  Date of Validation by Registration: 11/23/92
  Validation Certificate #: 911107W1.11228 (BASE)
  Compiler Name: AlsyCOMP_062, Version 5.35
  Host: HP 9000 Series 800 Model 835 (under HP-UX, Version A.B8.00 (release 8.00))
  Target: Same as Host

* Compiler Vendor: Alsys
  Compiler Type: Derived
  Date of Validation by Registration: 11/23/92
  Validation Certificate #: 911107W1.11228 (BASE)
  Compiler Name: AlsyCOMP_062, Version 5.35
  Host: HP 9000 Series 800, all models (under HP-UX, Version A.B8.00 (release 8.00))
  Target: Any Host

* Compiler Vendor: Alsys
  Compiler Type: Derived
  Date of Validation by Registration: 11/23/92
  Validation Certificate #: 911107W1.11228 (BASE)
  Compiler Name: AlsyCOMP_062, Version 5.35
  Host: HP 9000 Series 800 Models 807, 817, 847, & 867 (under HP-UX B-Level Security Operating System, Version A.08.08)
  Target: Any Host
Ada PROCESSORS, Continued

* Compiler Vendor: Alsys
  Compiler Type: Derived
  Date of Validation by Registration: 2/26/93
  Validation Certificate #: 911107W1.11228 (BASE)
  Compiler Name: AlsyCOMP_062, Version 5.5.1
  Host: HP 9000 Series 700, all models (under HP-UX, Version 9.01);
  HP 9000 Series 800, all models (under HP-UX, Version 9.0)
  Target: HP 9000 Series 800, all models (under HP-UX, Version 9.0)

* Compiler Vendor: Alsys
  Compiler Type: Derived
  Date of Validation by Registration: 12/20/93
  Validation Certificate #: 911107W1.11228 (BASE)
  Compiler Name: AlsyCOMP_062, Version 5.5.2
  Host: HP 9000 Series 700, all models (under HP-UX, Version 9.01);
  HP 9000 Series 800, all models (under HP-UX, Version 9.0)
  Target: HP 9000 Series 800, all models (under HP-UX, Version 9.0)

* Compiler Vendor: Alsys
  Compiler Type: Base
  Validation Certificate #: 91111181.11236
  Compiler Name: NATO SWG on APSE Compiler for VAX/VMS, Version
  VC1.82-02
  Host: VAX 8350 (under VMS Version 5.4-1, with CAIS Version 5.5E)
  Target: VAX 8350 (under VMS Version 5.4-1)

* Compiler Vendor: Alsys
  Compiler Type: Base
  Date of Validation by Registration: 12/31/91
  Validation Certificate #: 911119A1.11231
  Compiler Name: AlsyCOMP_072, Version 5.37
  Host: Sun SPARCstation 2 (under SunOS 4.1.1)
  Target: Same as Host

* Compiler Vendor: Alsys
  Compiler Type: Derived
  Date of Validation by Registration: 12/31/91
  Validation Certificate #: 911119A1.11231
  Compiler Name: AlsyCOMP_072, Version 5.37
  Host: Sun SPARCstation ELC, IPC & IPX; SPARCserver 330, 370,
  390, 470, 490, 630MP, 670MP & 690MP (under SunOS 4.1.1)
  Target: Any Host

* Compiler Vendor: Alsys
  Compiler Type: Derived
  Date of Validation by Registration: 1/9/93
  Validation Certificate #: 911119A1.11231 (BASE)
  Compiler Name: AlsyCOMP_072, Version 5.5.1
  Host: Solbourne Series 5/500, /550, /600, /670, /800 & SE/900; and
  S4000 (under OS/MP 4.1)
  Target: Any Host

* Compiler Vendor: Alsys
  Compiler Type: Derived
  Date of Validation by Registration: 1/9/93
  Validation Certificate #: 911119A1.11231 (BASE)
  Compiler Name: AlsyCOMP_072, Version 5.5.1
  Host: SPARCstation ELC, IPC, & IPX; SPARCserver 330, 370, 390,
  490, 690MP, 670MP, & 690MP (under SunOS 4.1.1)
  Target: Any Host

* Compiler Vendor: Alsys
  Compiler Type: Derived
  Date of Validation by Registration: 12/30/92
  Validation Certificate #: 920429H1.11251
  Compiler Name: AlsyCOMP_061, Version 1.83
  Host: DECstation 5100 (under ULTRIX Version 4.2)
  Target: Lockheed Sanders STAR MVP board (R3000/R3010) (bare
  machine)

* Compiler Vendor: Alsys
  Compiler Type: Derived
  Date of Validation by Registration: 1/3/93
  Validation Certificate #: 911119A1.11231 (BASE)
  Compiler Name: AlsyCOMP_072, Version 5.5.1
  Host: DEC DECstation & DECsystem computer families (under
  ULTRIX 4.2)
  Target: Lockheed Sanders STAR MVP board (R3000/R3010) (bare
  machine)

* Compiler Vendor: Alsys
  Compiler Type: Derived
  Date of Validation by Registration: 12/30/92
  Validation Certificate #: 920429H1.11251
  Compiler Name: AlsyCOMP_061, Version 1.84
  Host: DEC DECstation & DECsystem computer families (under
  ULTRIX 4.2)
  Target: Lockheed Sanders STAR MVP board (R3000/R3010) (bare
  machine)
### Ada PROCESSORS, Continued

| Compiler Vendor | Alsys
| Compiler Type: Base
| Validation Certificate #: 92072811.11261
| Compiler Name: NATO SWG on APSE Compiler for Sun3/SunOS to MC68020, Version 3SCM1.82
| Host: Sun-3/60 (under SunOS Version 4.0.3, with CAIS Version 5.5E)
| Target: Motorola MVe133XT (MC68020) (bare machine)

| Compiler Vendor | Alsys
| Compiler Type: Base
| Validation Certificate #: 92073011.11262
| Compiler Name: AlsyCOMP_069, Version 1.83
| Host: Control Data 4336 (under TC/IX 1.0.2)
| Target: Same as Host

| Compiler Vendor | Alsys
| Compiler Type: Derived
| Date of Validation by Registration: 12/30/92
| Validation Certificate #: 92073011.11262 (BASE)
| Compiler Name: AlsyCOMP_069, Version 1.83
| Host: Control Data 4000 series of computers (under TC/IX 1.0.2 & 1.1)
| Target: Any Host

| Compiler Vendor | Alsys
| Compiler Type: Derived
| Date of Validation by Registration: 2/26/93
| Validation Certificate #: 92073011.11262 (BASE)
| Compiler Name: AlsyCOMP_069, Version 1.83
| Host: Control Data 4000 series of computers (under EP/LX 1.3)
| Target: Any Host

| Compiler Vendor | Alsys
| Compiler Type: Derived
| Date of Validation by Registration: 3/13/95
| Validation Certificate #: 92102911.11295 (BASE)
| Compiler Name: AlsyCOMP_069, Version 1.83-02A
| Host: Control Data 4000 series of computers (under EP/LX 1.3)
| Target: Any Host

| Compiler Vendor | Alsys
| Compiler Type: Derived
| Date of Validation by Registration: 5/12/94
| Validation Certificate #: 92102911.11295 (BASE)
| Compiler Name: TeleGen2 Ada Cross Development System for SUN-4 to eMIPS, Version 2a
| Host: Sun-4/690 (under SunOS 5.3)
| Target: Algorithmics p-4000i (R4000) (bare machine)

| Compiler Vendor | Alsys
| Compiler Type: Base
| Validation Certificate #: 921118N11.11298
| Compiler Name: AlsyCOMP_062, Version 5.35
| Host: HP 9000 Series 800 Model 827 (under HP-UX Version 8.02)
| Target: Same as Host

| Compiler Vendor | Alsys
| Compiler Type: Base
| Validation Certificate #: 921128N11.11300
| Compiler Name: AlsyCOMP_073, Version 5.3
| Host: IBM ES/9000 Model 610 (under AIX/ESA Version 2)
| Target: Same as Host

| Compiler Vendor | Alsys
| Compiler Type: Base
| Validation Certificate #: 921210W11.11302
| Compiler Name: AlsyCOMP_019, Version 5.3.1
| Host: Compaq 433 (under MS-DOS 5.0 running Phar Lap 4.0)
| Target: Intel 80386/100 (bare machine)

| Compiler Vendor | Alsys
| Compiler Type: Derived
| Date of Validation by Registration: 2/23/93
| Validation Certificate #: 921210W11.11302 (BASE)
| Compiler Name: AlsyCOMP_065, Version 5.3
| Host: Sun Microsystems Sun-4, SPARCserver, and SPARCstation computer families (under SunOS 1.1)
| Target: Any Intel 80386, 80186, or 80286 single-board computer (bare machine, running ART 5.3)

| Compiler Vendor | Alsys
| Compiler Type: Derived
| Date of Validation by Registration: 3/13/95
| Validation Certificate #: 921218111.11304 (BASE)
| Compiler Name: TeleGen2 Ada Cross Development System for Sun-4 to 68K, Version 4.1A (under AIX 4.1)
| Host: Sun Microsystems Sun-4, SPARCstation, & SPARCserver series of computers (under SunOS 4.1)
| Target: SY-4 Systems SVME-122 (bare machine, using TeleAda-Exec)

| Compiler Vendor | Alsys
| Compiler Type: Derived
| Date of Validation by Registration: 3/20/93
| Validation Certificate #: 921218111.11304 (BASE)
| Compiler Name: RISCAda TRIAD/SPARCx68k for SunOS, Release 1c
| Host: Sun-4/440 (under SunOS release 4.1.2)
| Target: MVMe167 (58040) (bare machine, using TeleAda-Exec)

| Compiler Vendor | Alsys
| Compiler Type: Base
| Validation Certificate #: 030115S11.11305
| Compiler Name: Alsys Ada Software Development Environment for HP 9000 Series 600, 700 & 800, Version 5.35
| Host: HP 9000 Series 800 Model 807 (under HP-UX BLS Version A.08.06)
| Target: Same as Host

| Compiler Vendor | Alsys
| Compiler Type: Base
| Validation Certificate #: 030115S11.11306
| Compiler Name: Alsys Ada Software Development Environment for HP 9000 Series 600, 700 & 800, Version 5.35
| Host: HP 9000 Series 800 Model 817 (under HP-UX BLS Version A.08.06)
| Target: Same as Host

| Compiler Vendor | Alsys
| Compiler Type: Base
| Validation Certificate #: 030115S11.11307
| Compiler Name: Alsys Ada Software Development Environment for HP 9000 Series 600, 700 & 800, Version 5.35
| Host: HP 9000 Series 800 Model 847 (under HP-UX BLS Version A.08.06)
| Target: Same as Host
Ada PROCESSORS, Continued

* Compiler Vendor: Alsys
  Compiler Type: Base
  Validation Certificate #: 93011551.11308
  Compiler Name: Alsys Ada Software Development Environment for HP 9000 Series 600, 700 & 800, Version 5.35
  Host: HP 9000 Series 800 Model 867 (under HP-UX BLS Version A.08.08)
  Target: Same as Host

* Compiler Vendor: Alsys
  Compiler Type: Base
  Validation Certificate #: 93011551.11309
  Compiler Name: Alsys Ada Software Development Environment for HP 9000 Series 700/800, Version 5.35
  Host: Zenith Data Systems Z-Station 433 DEh (under SCO Unix 3.2 running SecureWare CMW+ Version 2.2 w/MaxBix)
  Target: Same as Host

* Compiler Vendor: Alsys
  Compiler Type: Base
  Validation Certificate #: 931208W1.11333
  Compiler Name: AlsyCOMP_032, Version 5.5
  Host: CompuAdd 433 (under IBM OS/2, Version 2.1 + Threads)
  Target: Same as Host

* Compiler Vendor: Alsys
  Compiler Type: Base
  Validation Certificate #: 931208W1.11334
  Compiler Name: AlsyCOMP_083, Version 5.5
  Host: CompuAdd 466 (under Windows NT, Version 3.1 + Threads)
  Target: Same as Host

* Compiler Vendor: Alsys
  Compiler Type: Base
  Validation Certificate #: 940826N1.11375
  Compiler Name: AlsyCOMP_17, Version 5.4.10
  Host: VAXstation 4000 Model 60 (under VMS 5.5-2)
  Target: INMOS T9000 transputer Gamma D02 on an INMOS VME TestBoard (bare machine)

Compiler Vendor: ATLAS ELEKTRONIK GmbH
Address: Sebaldsbruecker Heerstr. 235
P.O. Box 44 85 45
City: W-2800 Bremen 44
State: 
Zip Code: GERMANY
Country: GERMANY
Contact Name: Dieter Weigel
Phone: +49-291 457-3058
E-mail: (No e-mail address given)

* Compiler Vendor: ATLAS ELEKTRONIK GmbH
  Compiler Type: Base
  Validation Certificate #: 91032411.1130
  Compiler Name: ATLAS ELEKTRONIK Ada Compiler VVME 1.82
  Host: VAX 8000-410 (under VMS Version 5.2)
  Target: ATLAS ELEKTRONIK GmbH MPS 3200 (under MOS 2300, Version 2.1)

Compiler Vendor: Concurrent Computer Corporation
Address: 2 Crescent Place
City: Oceanport
State: NJ
Zip Code: 07757
Country: 
Contact Name: Linda Lewis
Phone: (908) 870-4643
E-mail: lewisl@westford.ccur.com

* Compiler Vendor: Concurrent Computer Corporation
  Compiler Type: Base
  Validation Certificate #: 90042711.11008
  Compiler Name: C3 Ada, Version 0.5
  Host: Concurrent Computer Corporation 8400 (MIPS R3000/R3010) (under RTU Version 5.1)
  Target: Same as Host

* Compiler Vendor: Concurrent Computer Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 7/12/90
  Validation Certificate #: 90042711.11008 (BASE)
  Compiler Name: C3 Ada, Version 0.5
  Host: Concurrent Computer Corporation 8500 (MIPS R3000/R3010) (under RTU Version 5.1)
  Target: Same as Host

* Compiler Vendor: Concurrent Computer Corporation
  Compiler Type: Base
  Validation Certificate #: 901130W1.11107
  Compiler Name: C3 Ada, Version 1.1v
  Host: Concurrent Computer Corporation 6550 with Super Lightning Floating Point (under RTU Version 5.0C)
  Target: Same as Host

* Compiler Vendor: Concurrent Computer Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 2/22/91
  Validation Certificate #: 901130W1.11107 (BASE)
  Compiler Name: C3 Ada, Version 1.1v
  Host: Concurrent Computer Corporation Series 6000 with Super Lightning Floating Point, and Series 5000 with Lightning Floating Point (all models) (under RTU Ver 5.0A, 5.0B & 5.0C)
  Target: Any Host

* Compiler Vendor: Concurrent Computer Corporation
  Compiler Type: Derived
  Date of Registration: 3/18/91
  Validation Certificate #: 901130W1.11107 (BASE)
  Compiler Name: C3 Ada, Version 1.1
  Host: Concurrent Computer Corporation Series 6000 (MC68030, with Super Lightning Floating Point) & Series 5000 (MC68620, with Lightning Floating Point) (under RTU Versions 5.0A, 5.0B, 5.0C & 6.0)
  Target: Same as Host

* Compiler Vendor: Concurrent Computer Corporation
  Compiler Type: Base
  Validation Certificate #: 901130W1.11108
  Compiler Name: C3 Ada, Version R03-00V
  Host: Concurrent Computer Corporation 3280MPS (under OS/32 Version R08-03.2)
  Target: Same as Host

* Compiler Vendor: Concurrent Computer Corporation
  Compiler Type: Derived
  Date of Registration: 2/22/91
  Validation Certificate #: 901130W1.11108 (BASE)
  Compiler Name: C3 Ada, Version R03-00V
  Host: Concurrent Computer Corporation Series 3200: 3200 MPS, 3203, 3205, 3210, 3220, 3230, 3250, 3230XP, 3250XP, 3230MPS, 3260MPS, Micro4, and Micro5 (under OS/32 Versions R08-03, R08-03.1 & R08-03.2)
  Target: Any Host
**Ada PROCESSORS, Continued**

* Compiler Vendor: Concurrent Computer Corporation
  **Compiler Type:** Derived
  **Date of Validation by Registration:** 5/7/83
  **Validation Certificate #:** 901130W1.11108 (BASE)
  **Compiler Name:** C3 Ada, Version R03-00
  **Host:** Concurrent Computer Corporation System Bus Processor family of computers (under Trusted OS/32 and MTM Version RO8-03,3S, and CS/32 Versions RO8-032, RO9-01.10S/32, & RO9-02)
  **Target:** Any Host

* Compiler Vendor: Concurrent Computer Corporation
  **Compiler Type:** Base
  **Validation Certificate #:** 901130W1.11109
  **Compiler Name:** C3 Ada, Version 1.0v
  **Host:** Concurrent Computer Corporation 8400 (MIPS R3000/3010) (under RTU Version 8.1)
  **Target:** Same as Host

* Compiler Vendor: Concurrent Computer Corporation
  **Compiler Type:** Derived
  **Date of Validation by Registration:** 2/22/91
  **Validation Certificate #:** 901130W1.11109 (BASE)
  **Compiler Name:** C3 Ada, Version 1.0v
  **Host:** Concurrent Computer Corporation Series 8000 (all models) (under RTU Versions 5.1, 5.1A & 5.1B)
  **Target:** Any Host

* Compiler Vendor: Concurrent Computer Corporation
  **Compiler Type:** Derived
  **Date of Validation by Registration:** 3/1/89
  **Validation Certificate #:** 901130W1.11109 (BASE)
  **Compiler Name:** C3 Ada, Version 1.0
  **Host:** Concurrent Computer Corporation Series 8000 (MIPS R3000/3010) (under RTU Versions 5.1A, 5.1B & 6.0)
  **Target:** Same as Host

* Compiler Vendor: Concurrent Computer Corporation
  **Compiler Type:** Derived
  **Date of Validation by Registration:** 4/1/89
  **Validation Certificate #:** 901130W1.11109 (BASE)
  **Compiler Name:** C3 Ada, Version 2.0p
  **Host:** Concurrent Computer Corporation Series 8000 (R3000/3010), all models (under RTU Versions 5.1A, 5.1B & 6.0)
  **Target:** Same as Host

* Compiler Vendor: Concurrent Computer Corporation
  **Compiler Type:** Derived
  **Date of Validation by Registration:** 8/20/92
  **Validation Certificate #:** 901130W1.11109 (BASE)
  **Compiler Name:** C3 Ada, Version 2.0b
  **Host:** Concurrent Computer Corporation Series 8000 (MIPS R3000/3010) (under RTU Version 6.0)
  **Target:** Any Host

* Compiler Vendor: Concurrent Computer Corporation
  **Compiler Type:** Derived
  **Date of Validation by Registration:** 6/3/94
  **Validation Certificate #:** 901130W1.11109 (BASE)
  **Compiler Name:** C3 Ada, Version 3.0
  **Host:** Concurrent Computer Corporation MAXI ON Multiprocessor System with MIPS R4400 and Internal Floating Point (all models) (under RTU Version 6.2)
  **Target:** Any Host

* Compiler Vendor: Concurrent Computer Corporation
  **Compiler Type:** Base
  **Validation Certificate #:** 901130W1.11110
  **Compiler Name:** C3 Ada, Version 1.1v
  **Host:** Concurrent Computer Corporation 6550 with MC6882 Floating Point (under RTU Version 5.0C)
  **Target:** Same as Host

* Compiler Vendor: Concurrent Computer Corporation
  **Compiler Type:** Derived
  **Date of Validation by Registration:** 2/22/91
  **Validation Certificate #:** 901130W1.11110 (BASE)
  **Compiler Name:** C3 Ada, Version 1.1v
  **Host:** Concurrent Computer Corporation Series 6000 with an MC68820 fpu, and Series 5000 with an MC68811 fpu (all models) (under RTU Versions 5.0A, 5.0B & 5.0C)
  **Target:** Any Host

* Compiler Vendor: Concurrent Computer Corporation
  **Compiler Type:** Derived
  **Date of Validation by Registration:** 3/18/91
  **Validation Certificate #:** 901130W1.11110 (BASE)
  **Compiler Name:** C3 Ada, Version 1.1
  **Host:** Concurrent Computer Corporation Series 6000 (MC68030/MC68820) & Series 5000 (MC68020/MC68811) (under RTU Versions 5.0A, 5.0B, 5.0C & 6.0)
  **Target:** Same as Host

* Compiler Vendor: Concurrent Computer Corporation
  **Compiler Type:** Derived
  **Date of Validation by Registration:** 8/10/92
  **Validation Certificate #:** 901130W1.11110 (BASE)
  **Compiler Name:** C3 Ada, Version 2.0b
  **Host:** Concurrent Computer Corporation Series 7000 (MC68040) (under RTU Version 6.1)
  **Target:** Any Host

* Compiler Vendor: Concurrent Computer Corporation
  **Compiler Type:** Derived
  **Date of Validation by Registration:** 8/31/92
  **Validation Certificate #:** 901130W1.11110 (BASE)
  **Compiler Name:** C3 Ada, Version 2.0b
  **Host:** Concurrent Computer Corporation Series 7000 (MC68040) (under RTU Version 6.1)
  **Target:** Any Host

* Compiler Vendor: Concurrent Computer Corporation
  **Compiler Type:** Derived
  **Date of Validation by Registration:** 6/14/94
  **Validation Certificate #:** 901130W1.11110 (BASE)
  **Compiler Name:** C3 Ada, Version 2.0bV4 & 2.0bV4c
  **Host:** Concurrent Computer Corporation Series 7000 (MC68040) (under RTU, Version 6.1A)
  **Target:** Any Host

Compiler Vendor: Control Data Systems, Inc.
Address: 1300 Orleans Drive
City: Sunnyvale
State: CA
Zip Code: 94089-1135
Country: USA
Contact Name: Kathy Sharp
Phone: (408)541-4200
E-mail: kls@svl.cdc.com

* Compiler Vendor: Control Data Systems, Inc.
  **Compiler Type:** Base
  **Validation Certificate #:** 931217S1.11336
  **Compiler Name:** NOS/VE Ada, Version 1.4
  **Host:** CYBER 180-930-31 (under NOS/VE, Level 826)
  **Target:** Same as Host

Compiler Vendor: CONVEX Computer Corporation
Address: 7501 Greenway Center Dr., Suite 800
City: Greenbelt
State: MD
Zip Code: 20770
Country: USA
Contact Name: Sudy Bharadwaj
Phone: (301) 345-2400
E-mail: sudy@convex.com
Ada PROCESSORS, Continued

* Compiler Vendor: CONVEX Computer Corporation
  Compiler Type: Base
  Validation Certificate #: 900910W1.11027
  Compiler Name: CONVEX Ada, Version 2.0
  Host: CONVEX C220 (under ConvexOS 8.1)
  Target: Same as Host

* Compiler Vendor: CONVEX Computer Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 1/25/91
  Validation Certificate #: 900910W1.11027 (BASE)
  Compiler Name: CONVEX Ada, Version 2.0
  Host: CONVEX C120, C201, C202, C210, C220, C230, C240, C210i, C220i & C320i (under ConvexOS, Versions 8.1 and 9.0)
  Target: Any Host

* Compiler Vendor: CONVEX Computer Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 12/1/91
  Validation Certificate #: 900910W1.11027 (BASE)
  Compiler Name: CONVEX Ada, Version 2.1
  Host: CONVEX C120, and C2xx, C3xx, C4xx, & C5xx computer series (under ConvexOS, Versions 8.1, 9.0, 9.1, 10.0, & 10.1; and ConvexOS/Secure Versions 9.5 & 10.0)
  Target: Same as Host

Compiler Vendor: Cray Research, Inc.
Address: 500 Montezuma, Suite 118
City: Santa Fe
State: NM
Zip Code: 87501
Country: Contact Name: Sylvia Crain
Phone: (505) 968-2468, ext. 30
E-mail: svc@cray.com

* Compiler Vendor: Cray Research, Inc.
  Compiler Type: Base
  Validation Certificate #: 901112W1.11116
  Compiler Name: Cray Ada Compiler Release 2.0
  Host: Cray X-MP/EA (under UNICOS Release 5.0)
  Target: Same as Host

* Compiler Vendor: Cray Research, Inc.
  Compiler Type: Derived
  Date of Validation by Registration: 9/27/91
  Validation Certificate #: 901112W1.11116 (BASE)
  Compiler Name: Cray Ada Compiler Release 2.0
  Host: CRAY C-90 (in Y-MP mode) (under UNICOS 7C.0)
  Target: Same as Host

* Compiler Vendor: Cray Research, Inc.
  Compiler Type: Derived
  Date of Validation by Registration: 8/10/92
  Validation Certificate #: 901112W1.11117 (BASE)
  Compiler Name: Cray Ada Compiler Release 3.0
  Host: CRAY Y-MP & Y-MP EL (all models) (under UNICOS Releases 6.1)
  Target: Each Host, self-targeted

* Compiler Vendor: Cray Research, Inc.
  Compiler Type: Derived
  Date of Validation by Registration: 3/31/93
  Validation Certificate #: 901112W1.11117 (BASE)
  Compiler Name: Cray Ada Compiler Release 3.1
  Host: CRAY Y-MP & Y-MP EL (all models) (under UNICOS Releases 6.1 & 7.0)
  Target: Any Host

* Compiler Vendor: Cray Research, Inc.
  Compiler Type: Derived
  Date of Validation by Registration: 12/8/93
  Validation Certificate #: 910006W1.11123 (BASE)
  Compiler Name: Cray Ada Compiler Release 2.0
  Host: CRAY-2/4-128 (under UNICOS Release 6.1)
  Target: Same as Host

* Compiler Vendor: Cray Research, Inc.
  Compiler Type: Derived
  Date of Validation by Registration: 12/1/94
  Validation Certificate #: 910006W1.11223 (BASE)
  Compiler Name: Cray Ada Compiler Release 2.0
  Host: CRAY-2 (all models) (under UNICOS Release 6.1)
  Target: Each Host, self-targeted
Ada PROCESSORS, Continued

* Compiler Vendor: Cray Research, Inc.
  Compiler Type: Derived
  Date of Validation by Registration: 8/10/92
  Validation Certificate #: 011006W1.11223 (BASE)
  Compiler Name: Cray Ada Compiler Release 3.0
  Host: CRAY-2/4-128 (all models) (under UNICOS Release 6.1)
  Target: Each Host, self-targeted

* Compiler Vendor: Cray Research, Inc.
  Compiler Type: Derived
  Date of Validation by Registration: 3/31/93
  Validation Certificate #: 011006W1.11223 (BASE)
  Compiler Name: Cray Ada Compiler Release 3.1
  Host: CRAY CRAY-2/4-128 (all models) (under UNICOS Releases 6.1 & 7.0)
  Target: Any Host

Compiler Vendor: DDC-I, Inc.
Address: (formerly DDC-Inter, Inc.)
410 North 44th Street
City: Phoenix
State: AZ
Zip Code: 85008
Country:
Contact Name: Kelly Swainson
Phone: (602) 275-7172
E-mail: kj$ddcphilx$unameu.net

* Compiler Vendor: DDC-I, Inc.
  Compiler Type: Derived
  Date of Validation by Registration: 10/9/91
  Validation Certificate #: 010705S1.11174 (BASE)
  Compiler Name: DACS VAX/VMS to 80486 PM Bare Ada Cross Compiler System, Version 4.6
  Host: VAX 8530 (under VMS Version 5.3)
  Target: Intel ISBC 486/125 (bare machine)

* Compiler Vendor: DDC-I, Inc.
  Compiler Type: Base
  Validation Certificate #: 010705S1.11191
  Compiler Name: InterACT Ada 1750A Compiler System, Release 3.5
  Host: MicroVAX 3100 Cluster (under VMS 5.2)
  Target: InterACT MIL-STD-1750A Instruction Set Architecture Simulator Release 2.3 (bare machine simulation)

* Compiler Vendor: DDC-I, Inc.
  Compiler Type: Base
  Validation Certificate #: 010705S1.11192
  Compiler Name: InterACT Ada MIPS Cross-Compiler System, Release 2.0
  Host: MicroVAX 3100 Cluster (under VMS 5.2)
  Target: Lockheed Sanders STAR MVP R3000/R3010 Board (bare machine)

* Compiler Vendor: DDC-I, Inc.
  Compiler Type: Derived
  Date of Validation by Registration: 10/10/91
  Validation Certificate #: 010705S1.11192 (BASE)
  Compiler Name: InterACT Ada MIPS Cross-Compiler System, Release 2.1
  Host: MicroVAX 3100 Cluster (under VMS 5.2)
  Target: Lockheed Sanders STAR MVP R3000/R3010 Board (bare machine)

* Compiler Vendor: DDC-I, Inc.
  Compiler Type: Base
  Validation Certificate #: 920805S1.11263
  Compiler Name: DACS MIPS RISC/os to MIPS R3000 Bare Ada Cross Compiler System, Release 2.1-16
  Host: MIPS M/120-5 (under RISC/os Version 4.50)
  Target: Lockheed Sanders STAR MVP R3000/R3010 Board (bare machine)

* Compiler Vendor: DDC-I, Inc.
  Compiler Type: Base
  Validation Certificate #: 920805S1.11264
  Compiler Name: DACS DECstation/ULTRIX to MIPS R3000 Bare Ada Cross Compiler System, Release 2.1-16
  Host: DECstation 3100 (under ULTRIX Version 4.0)
  Target: Integrated Device Technology IDT7RS301 R3000/R3010 Board (bare machine)

* Compiler Vendor: DDC-I, Inc.
  Compiler Type: Base
  Validation Certificate #: 920805S1.11265
  Compiler Name: DACS Sun SPARC/SunOS Native Ada Compiler System, Version 4.6.1
  Host: Sun SPARCstation 2 (under SunOS, Version 4.1.1)
  Target: Same as Host

* Compiler Vendor: DDC-I, Inc.
  Compiler Type: Base
  Validation Certificate #: 931119S1.11331
  Compiler Name: DACS Sun SPARC/SunOS Bare Ada Cross Compiler System, Version 4.7.1
  Host: Sun SPARCstation IPX (under SunOS, Release 4.1.3)
  Target: Intel i386/116 (bare machine)

* Compiler Vendor: DDC-I, Inc.
  Compiler Type: Base
  Validation Certificate #: 940032S1.11341
  Compiler Name: DACS Sun SPARC/SunOS to 80186 Bare Ada Cross Compiler System, Version 4.6.4
  Host: Sun SPARCstation IPX (under SunOS, Release 4.1.2)
  Target: Intel i386/100 (bare machine)

* Compiler Vendor: DDC-I, Inc.
  Compiler Type: Base
  Validation Certificate #: 940032S1.11342
  Compiler Name: DACS Sun SPARC/SunOS to 80186 Bare Ada Cross Compiler System w/ Rate Monotonic Scheduling, V4.6.4
  Host: Sun SPARCstation IPX (under SunOS, Release 4.1.2)
  Target: Intel i386/100 (bare machine)

* Compiler Vendor: DDC-I, Inc.
  Compiler Type: Base
  Validation Certificate #: 940032S1.11343
  Compiler Name: DACS Sun SPARC/Solaris to 80186 Bare Ada Cross Compiler System, Version 4.6.4
  Host: Sun SPARCclassic (under Solaris, Release 2.1)
  Target: Intel i386/100 (bare machine)

* Compiler Vendor: DDC-I, Inc.
  Compiler Type: Base
  Validation Certificate #: 940032S1.11344
  Compiler Name: DACS Sun SPARC/Solaris to 80186 Bare Ada Cross Compiler System w/ Rate Monotonic Scheduling, V4.6.4
  Host: Sun SPARCclassic (under Solaris, Release 2.1)
  Target: Intel i386/100 (bare machine)

* Compiler Vendor: DDC-I, Inc.
  Compiler Type: Base
  Validation Certificate #: 940032S1.11345
  Compiler Name: DACS Sun SPARC/SunOS to 80386 PM Bare Ada Cross Compiler System, Version 4.6.9
  Host: Sun SPARCstation IPX (under SunOS, Release 4.1.1)
  Target: Motorola MME143 (6030/68882) (bare machine)
Ada PROCESSORS, Continued

* Compiler Vendor: DDC-I, Inc.
  Compiler Type: Base
  Validation Certificate #: 901129S1.11050
  Compiler Name: DACS Sun SPARC/Solaris Native Ada Compiler System, Version 4.6.4
  Host: VAX 8530 (under VMS Version 5.3)
  Target: Same as Host
  Address: G1. Lundtoftevej 1B
  City: DK-2800 Lyngby
  State: DENMARK
  Zip Code: 2800
  Contact Name: Kurt Westh Hansen
  Phone: +45 45 871144
  E-mail: kwh@ddci.dk

* Compiler Vendor: DDC-International A/S
  Compiler Type: Base
  Validation Certificate #: 901129S1.11074
  Compiler Name: DACS VAX/VMS to 80386 PM Bare Ada Cross Compiler System, Version 4.6
  Host: VAX 8530 (under VMS Version 5.3)
  Target: Same as Host
  Address: G1. Lundtoftevej 1B
  City: DK-2800 Lyngby
  State: DENMARK
  Zip Code: 2800
  Contact Name: Kurt Westh Hansen
  Phone: +45 45 871144
  E-mail: kwh@ddci.dk

* Compiler Vendor: DDC-I, Inc.
  Compiler Type: Base
  Validation Certificate #: 940325SS1.11345
  Compiler Name: DACS Sun SPARC/SunOS to 680x0 Bare Ada Cross Compiler System (BASIC_MODE), Version 4.6.9
  Host: Sun SPARCstation IPX (under SunOS, Release 4.1.1)
  Target: Lynwood J43STU (68030) (bare machine)

* Compiler Vendor: DDC-I, Inc.
  Compiler Type: Base
  Validation Certificate #: 940325SS1.11347
  Compiler Name: DACS Sun SPARC/SunOS to 680x0 Bare Ada Cross Compiler System (SECURE_MODE), Version 4.6.9
  Host: Sun SPARCstation IPX (under SunOS, Release 4.1.1)
  Target: Lynwood J43STU (68030) (bare machine)

* Compiler Vendor: DDC-I, Inc.
  Compiler Type: Base
  Validation Certificate #: 940325SS1.11349
  Compiler Name: DACS Sun SPARC/Solaris to 80386 PM Bare Ada Cross Compiler System w/ Rate Monotonic Scheduling, V4.6.4
  Host: Sun SPARCclassic (under Solaris, Release 4.1.2)
  Target: Intel iSBC 386/116 (bare machine)

* Compiler Vendor: DDC-I, Inc.
  Compiler Type: Base
  Validation Certificate #: 940325S1.11350
  Compiler Name: DACS Sun SPARC/SunOS to Pentium PM Bare Ada Cross Compiler System, Version 4.6.4
  Host: Sun SPARCstation IPX (under SunOS, Release 4.1.2)
  Target: Intel iXpress Desktop (product # XBASE64E-F, with Pentium cpu, operating as a bare machine)

* Compiler Vendor: DDC-I, Inc.
  Compiler Type: Base
  Validation Certificate #: 940325S1.11351
  Compiler Name: DACS Sun SPARC/SunOS to Pentium PM Bare Ada Cross Compiler System w/ Rate Monotonic Scheduling, 4.6.4
  Host: Sun SPARCclassic (under Solaris, Release 2.1)
  Target: Intel iXpress Desktop (product # XBASE64E-F, with Pentium cpu, operating as a bare machine)

* Compiler Vendor: DDC-I, Inc.
  Compiler Type: Base
  Validation Certificate #: 940325S1.11352
  Compiler Name: DACS Sun SPARC/Solaris to Pentium PM Bare Ada Cross Compiler System, Version 4.6.4
  Host: Sun SPARCclassic (under Solaris, Release 2.1)
  Target: Intel iXpress Desktop (product # XBASE64E-F, with Pentium cpu, operating as a bare machine)

* Compiler Vendor: DDC-I, Inc.
  Compiler Type: Base
  Validation Certificate #: 940325S1.11353
  Compiler Name: DACS Sun SPARC/Solaris to Pentium PM Bare Ada Cross Compiler Sys. w/Rate Monotonic Scheduling, 4.6.4
  Host: Sun SPARCclassic (under Solaris, Release 2.1)
  Target: Intel iXpress Desktop (product # XBASE64E-F, with Pentium cpu, operating as a bare machine)
Ada PROCESSORS, Continued

* Compiler Vendor: DDC-International A/S
  Compiler Type: Base
  Validation Certificate #: 901129S1.11078
  Compiler Name: DACS Sun3/SunOS Native Ada Compiler System, Version 4.6
  Host: Sun-3/60 (under SunOS, Version 4.0_Export)
  Target: Same as Host

* Compiler Vendor: DDC-International A/S
  Compiler Type: Base
  Validation Certificate #: 901129S1.11077
  Compiler Name: DACS VAX/VMS to 80186 Bare Ada Cross Compiler System with Rate Monotonic Scheduling, Version 4.6
  Host: VAX 8530 (under VMS Version 5.3)
  Target: Intel ISBC 186/03 (bare machine)

* Compiler Vendor: DDC-International A/S
  Compiler Type: Derived
  Date of Validation by Registration: 12/17/91
  Validation Certificate #: 901129S1.11077 (BASE)
  Compiler Name: DACS VAX/VMS to 80186 Bare Ada Cross Compiler System with Rate Monotonic Scheduling, Version 4.6
  Host: DEC VAX-11, VAXserver, VAXstation, MicroVAX, VAX 6000, VAX 8000 & VAX 9000 Series of computers, including Raytheon Military VAX computer model 850 (under VMS Version 5.3)
  Target: Intel ISBC 186/03 (bare machine)

* Compiler Vendor: DDC-International A/S
  Compiler Type: Derived
  Date of Validation by Registration: 12/17/91
  Validation Certificate #: 901129S1.11077 (BASE)
  Compiler Name: DACS VAX/VMS to 8026 Bare Ada Cross Compiler System with Rate Monotonic Scheduling, Version 4.6
  Host: DEC VAX-11, VAXserver, VAXstation, MicroVAX, VAX 6000, VAX 8000 & VAX 9000 Series of computers, including Raytheon Military VAX computer model 860 (under VMS Version 5.3)
  Target: Intel ISBC 186/03 (bare machine)

* Compiler Vendor: DDC-International A/S
  Compiler Type: Derived
  Date of Validation by Registration: 12/17/91
  Validation Certificate #: 901129S1.11077 (BASE)
  Compiler Name: DACS VAX/VMS to 8026 Bare Ada Cross Compiler System with Rate Monotonic Scheduling, Version 4.6
  Host: DEC VAX-11, VAXserver, VAXstation, MicroVAX, VAX 6000, VAX 8000 & VAX 9000 Series of computers, including Raytheon Military VAX computer model 860 (under VMS Version 5.3)
  Target: Intel ISBC 186/12 (bare machine)

* Compiler Vendor: DDC-International A/S
  Compiler Type: Derived
  Date of Validation by Registration: 12/17/91
  Validation Certificate #: 901129S1.11077 (BASE)
  Compiler Name: DACS VAX/VMS to 8026 PM Bare Ada Cross Compiler System with Rate Monotonic Scheduling, Version 4.6
  Host: DEC VAX-11, VAXserver, VAXstation, MicroVAX, VAX 6000, VAX 8000 & VAX 9000 Series of computers, including Raytheon Military VAX computer model 860 (under VMS Version 5.3)
  Target: Intel ISBC 186/12 in Protected Mode (bare machine)

* Compiler Vendor: DDC-International A/S
  Compiler Type: Derived
  Date of Validation by Registration: 4/1/95
  Validation Certificate #: 901129S1.11077 (BASE)
  Compiler Name: DACS VAX/VMS to 80186PM Bare Ada Cross Compiler System with Rate Monotonic Scheduling, Version 4.6
  Host: DEC VAX, VAX-11, MicroVAX, VAXstation, VAXserver series of computers, and Raytheon Military VAX Model 850 (under VMS Versions 5.3, 5.4, & 5.5)
  Target: Intel ISBC 186/03 (bare machine)
**Ada PROCESSORS, Continued**

- **Compiler Vendor:** DDC-International A/S  
  **Compiler Type:** Derived  
  **Date of Validation by Registration:** 12/17/91  
  **Validation Certificate #:** 90112951.11079 (BASE)  
  **Compiler Name:** DACS VAX/VMS to 80286 bare Ada Cross  
  **Compiler System:** Version 4.6  
  **Host:** DEC VAX-11, VAXserver, VAXstation, MicroVAX, VAX 6000, VAX 8000 & VAX 9000 series of computers, including Raytheon Military VAX computer model 860 (under VMS Version 5.3)  
  **Target:** Intel ISBC 286/12 in Protected Mode (bare machine)

- **Compiler Vendor:** DDC-International A/S  
  **Compiler Type:** Derived  
  **Date of Validation by Registration:** 4/7/95  
  **Validation Certificate #:** 90112951.11079 (BASE)  
  **Compiler Name:** DACS VAX/VMS to 80186PM bare Ada Cross Compiler System with Rate Monotonic Scheduling, Version 4.7.2  
  **Host:** DEC VAX, VAXstation, VAXserver series of computers, and Raytheon Military VAX computer model 860 (under VMS Versions 5.3, 5.4, & 5.5)  
  **Target:** Intel ISBC 186/03 (bare machine)

- **Compiler Vendor:** DDC-International A/S  
  **Compiler Type:** Base  
  **Date of Validation by Registration:** 4/7/95  
  **Validation Certificate #:** 90112951.11112  
  **Compiler Name:** DACS 80386 DMS/OS Ada Compiler System, Version 4.6  
  **Host:** IBM PS/2 Model 80-311 (under LynuxOS 386/PS2, Ver 2.0A)  
  **Target:** Same as Host

- **Compiler Vendor:** DDC-International A/S  
  **Compiler Type:** Base  
  **Date of Validation by Registration:** 1/12/94  
  **Validation Certificate #:** 90150251.11158  
  **Compiler Name:** DACS VAX/VMS to 80860 bare Ada Cross Compiler System, Version 4.6.1  
  **Host:** VAX 8530 (under VMS Version 5.3)  
  **Target:** Tadpole Technology plc TP800M (bare machine)

- **Compiler Vendor:** DDC-International A/S  
  **Compiler Type:** Base  
  **Date of Validation by Registration:** 1/12/94  
  **Validation Certificate #:** 90150251.11159  
  **Compiler Name:** DACS Sun-3/SunOS to 68030 bare Ada Cross Compiler System, Version 4.6.5  
  **Host:** Sun-3/50 (under SunOS Release 4.0_Export)  
  **Target:** Motorola MVME143 (68030/68862) board (bare machine)

- **Compiler Vendor:** DDC-International A/S  
  **Compiler Type:** Derived  
  **Date of Validation by Registration:** 10/25/94  
  **Validation Certificate #:** 90150251.11159  
  **Compiler Name:** DACS Sun-3/SunOS to 68030 bare Ada Cross Compiler System, Version 4.6.5  
  **Host:** Sun Microsystems Sun-3 computer families (under SunOS Version 4.0)  
  **Target:** Motorola MVME143 (68030/68862) board (bare machine)

- **Compiler Vendor:** DDC-International A/S  
  **Compiler Type:** Derived  
  **Date of Validation by Registration:** 4/7/95  
  **Validation Certificate #:** 93111951.11331 (BASE)  
  **Compiler Name:** DACS Sun SPARC/SunOS to 80486PM bare Ada Cross Compiler System, Version 4.7.2  
  **Host:** Sun Microsystems Sun-4, SPARCstation, SPARCclassic, & SPARCserver series of computers (under SunOS 4.1)  
  **Target:** Intel ISBC 286/116 (bare machine)

- **Compiler Vendor:** DDC-International A/S  
  **Compiler Type:** Base  
  **Date of Validation by Registration:** 12/6/94  
  **Validation Certificate #:** 94032551.11341  
  **Compiler Name:** DACS Sun SPARC/SunOS to 80186 bare Ada Cross Compiler System, Version 4.6.4  
  **Host:** Sun SPARCstation IPX (under SunOS, Release 4.1.2)  
  **Target:** Intel ISBC 186/100 (bare machine)

- **Compiler Vendor:** DDC-International A/S  
  **Compiler Type:** Derived  
  **Date of Validation by Registration:** 12/6/94  
  **Validation Certificate #:** 94032551.11342 (BASE)  
  **Compiler Name:** DACS Sun SPARC/SunOS to 80186 bare Ada Cross Compiler System w/ Rate Monotonic Scheduling, V4.6.4  
  **Host:** Sun Microsystems Sun-4, SPARCserver, SPARCclassic, and SPARCstation computer families (under SunOS, Version 4.1)  
  **Target:** Intel ISBC 68/35 (bare machine)

- **Compiler Vendor:** DDC-International A/S  
  **Compiler Type:** Derived  
  **Date of Validation by Registration:** 10/25/94  
  **Validation Certificate #:** 94032551.11350 (BASE)  
  **Compiler Name:** DACS Sun SPARC/SunOS to 80486 PM bare Ada Cross Compiler System, Version 4.6.4  
  **Host:** Sun Microsystems Sun-4, SPARCserver, SPARCclassic, and SPARCstation computer families (under SunOS, Version 4.1)  
  **Target:** Intel 80486 DX4 based in IBM PS/Valuepoint desktop (operated as a bare machine)

Compiler Vendor: DESC Ltd.  
Address: (formerly International Computers Limited)  
Jaya Close  
Viables Industrial Estate, Basingstoke  
City: Hampshire, RG22 4BY  
State:  
Zip Code: UNITED KINGDOM  
Country:  
Contact Name: Les Fairbrother  
Phone: +44 256 810711  
E-mail: (No e-mail address given)
Ada PROCESSORS, Continued

* Compiler Vendor: DESC Ltd.
  Compiler Type: Derived
  Date of Validation by Registration: 4/23/93
  Validation Certificate #: 921008N1.11293 (BASE)
  Compiler Name: VME Ada Compiler, Version A3.20
  Host: ICL Series 39 Level 80 (under VME with VMEB Environment Option Version SV292)
  Target: Same as Host

* Compiler Vendor: DESC Ltd.
  Compiler Type: Derived
  Date of Validation by Registration: 8/3/93
  Validation Certificate #: 921008N1.11293 (BASE)
  Compiler Name: VME Ada Compiler, Version A3.25
  Host: ICL Series 39 Level 80 (under VME with VMEB Environment Option Version SV292)
  Target: Same as Host

* Compiler Vendor: DESC Ltd.
  Compiler Type: Derived
  Date of Validation by Registration: 4/8/94
  Validation Certificate #: 921008N1.11293 (BASE)
  Compiler Name: VME Ada Compiler, Version A3.25
  Host: ICL Series 39 Level 80 (under VME with VMEB Environment Option Version SV293)
  Target: ICL Series 39 Level 80 & Series 39 SX Processor families (under VME with VMEB Environment Option Version SV293)

Compiler Vendor: Digital Equipment Corporation
Address: MS: ZKO 2-3/M11
110 Spill Brook Road
City: Nashua
State: NH
Zip Code: 03062
Country: Contact Name: Cathy Axel
Phone: (603) 881-1413
E-mail: axel@sdttmm.enet.dec.com

* Compiler Vendor: Digital Equipment Corporation
  Compiler Type: Base
  Validation Certificate #: 901106S1.11053
  Compiler Name: VAX Ada, Version 2.2
  Host: VAX 8800 (under VMS Version 5.4)
  Target: Same as Host

* Compiler Vendor: Digital Equipment Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 5/30/91
  Validation Certificate #: 901106S1.11053 (BASE)
  Compiler Name: VAX Ada, Version 2.2
  Host: DEC VAX-11, VAXserver, VAXstation, VAXt, MicroVAX, VAX 4000, VAX 6000, VAX 8000 & VAX 9000 Series of computers (as supported); Ratheon Military VAX Computer Model 860; and Norden MilVAX Computer Model MilVAX II (under VMS Version 5.4)
  Target: Any Host

* Compiler Vendor: Digital Equipment Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 8/3/93
  Validation Certificate #: 901106S1.11053 (BASE)
  Compiler Name: VAX Ada, Version 2.3
  Host: All VAX, MicroVAX, VAXstation, VAXserver series of computers (as supported) (under VMS Versions 5.4 & 5.5)
  Target: Any Host

* Compiler Vendor: Digital Equipment Corporation
  Compiler Type: Base
  Validation Certificate #: 901106S1.11054
  Compiler Name: VAX Ada, Version 2.2
  Host: VAX 8800 (under VMS Version 5.4)
  Target: MicroVAX II (under VAXELN Version 4.1, using VAXELN Ada Version 2.2)

* Compiler Vendor: Digital Equipment Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 5/30/91
  Validation Certificate #: 901109S1.11054 (BASE)
  Compiler Name: VAX Ada, Version 2.2
  Host: DEC VAX-11, VAXserver, VAXstation, VAXt, MicroVAX, VAX 4000, VAX 6000, VAX 8000 & VAX 9000 Series of computers (as supported); Ratheon Military VAX Computer Model 860; and Norden MilVAX Computer Model MilVAX II (under VMS Version 5.4)
  Target: VAX 4000 Models 200 & 300; VAX 6000 Series 200, 300 & 400; VAX 8200, 8250, 8500, 8530, 8550, 8700, 8800, & 8810; VAX 11/730 & /750; MicroVAX II, 2000, 3100, 3300, 3400, 3500, 3600, 3800, & 3900; VAXstation 2000, 3100, 3300, 3500, 3800, & 3900; MilVAX II, IVAX 620 & 630; VAX RTA; KA800-M; rtVAX 300, 1000, 3200, 3300, 3400, 3500, 3800, 3900; VAXstation 3100 Models 30 & 38 (under VAXELN Version 4.2, using VAXELN Ada Version 2.2)

* Compiler Vendor: Digital Equipment Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 5/1/91
  Validation Certificate #: 901109S1.11054 (BASE)
  Compiler Name: VAX Ada, Version 2.2
  Host: VAX 6000 Model 200, 300 & 400 Series; VAX 8200, 8250, 8300, 8350, 8500, 8530, 8550, 8600, 8650, 8700, 8800, 8810, 8820, 8830, 8840, 8842, 8974 & 8978; VAX 11/730, /750, /780, /785; MicroVAX II, 2000, 3100, 3300, 3400, 3500, 3600, 3800 & 3900; VAXstation 2000, 3100, 3300, 3500, 3800, & 3900; VAXstation Models 200, 200, 310, 320, 410, & 420; Ratheon Military VAX Computer Models 810 & 860; Norden Systems: MilVAX II, IVAX 620 & 630; DEC 8600 & 630e; rtVAX 300, 1000, 3200, 3300, 3400, 3500, 3800, 3900; VAXstation 3100 Models 30 & 38 (under VAXELN Version 4.2, using VAXELN Ada Version 2.2)

* Compiler Vendor: Digital Equipment Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 8/3/93
  Validation Certificate #: 901109S1.11054 (BASE)
  Compiler Name: VAX Ada, Version 2.3
  Host: All VAX, MicroVAX, VAXstation, VAXserver series of computers (as supported) (under VMS Versions 5.4 & 5.5)
  Target: VAX 4000, 6000, & 9000 series of computers; MicroVAX II, 2000, & 3000 series of computers; VAXstation II, 2000, 3000, & 4000 series of computers; VAXserver 3000, 4000, & 6000 series of computers; rtVAX 620 & 630; KA620-BA, KA420-BA, & KA800-M; rtVAX 300, 1000, 3200, 3300, 3400, 3500, 3800, 3900, 3900, rtVAX 6000 Models 200, 300, & 400 Series and rtVAXstation 3100 Models 30 & 38 (under VAXELN Version 4.4, using VAXELN Ada Version 2.2)

* Compiler Vendor: Digital Equipment Corporation
  Compiler Type: Base
  Validation Certificate #: 911025S1.11226
  Compiler Name: DEC Ada, Version 1.0
  Host: DECstation 5000 Model 200 (under ULTRIX 4.2)
  Target: Same as Host
4.2,

Compiler

Validation

Compiler

Host:

Date of Validation by Registration: 10/31/91

Validation Certificate #: 91102551.11225 (BASE)

Compiler Name: DEC Ada, Version 1.0

Host: DECstation 2100, 3100, 3100s, 5000 Models 120/125, 120/125CX, 120/125PXK, 120/125PXK TURBO, 200, 200CX, 200PX, 200PXK, 200PXK TURBO; and DECsystem 3100, 5000 Model 200, 5100, 5400, 5500, 5810, 5820, 5830 & 5840 (under ULTRIX Versions 4.0, 4.1 & 4.2)

Target: Any Host

* Compiler Vendor: Digital Equipment Corporation

Compiler Type: Derived

Date of Validation by Registration: 2/11/92

Validation Certificate #: 91102551.11226 (BASE)

Compiler Name: DEC Ada, Version 1.1

Host: DEC DECstation 2100, 3100, & 5000; and DECsystem 5000, 5100, 5400, 5500, 5800, & 5900 series of computers (under ULTRIX Versions 4.0, 4.1, 4.2, & 4.2A)

Target: Any Host

* Compiler Vendor: Digital Equipment Corporation

Compiler Type: Base

Date of Validation by Registration: 6/4/93

Validation Certificate #: 91102551.11226 (BASE)

Compiler Name: DEC Ada, Version 1.1

Host: DECstation 2100, 3100, & 5000; and DECsystem 3100, 5000, 5100, 5400, 5500, 5810, 5820, 5840, & 5900 series of computers (under ULTRIX Version 4.2)

Target: Any Host

* Compiler Vendor: Digital Equipment Corporation

Compiler Type: Derived

Date of Validation by Registration: 3/31/93

Validation Certificate #: 93031951.11315 (BASE)

Compiler Name: DEC Ada for OpenVMS AXP Systems, Version 3.0-5

Host: DEC 3000 Model 400 (OpenVMS AXP Operating System, Version 1.0)

Target: Same as Host

* Compiler Vendor: Digital Equipment Corporation

Compiler Type: Derived

Date of Validation by Registration: 8/30/94

Validation Certificate #: 93031951.11315 (BASE)

Compiler Name: DEC Ada for OpenVMS AXP Systems, Version 3.0-7

Host: DEC 2000 Server, 3000 Workstation and Server models, 4000, 7000, & 10000 series of AXP computers (OpenVMS AXP Operation System Version 1.5)

Target: Any Host

* Compiler Vendor: Digital Equipment Corporation

Compiler Type: Base

Date of Validation by Registration: 3/31/93

Validation Certificate #: 93031951.11315 (BASE)

Compiler Name: DEC Ada for OpenVMS VAX Systems, Version 3.0-7

Host: VAXserver 3000, 4000, & 6000 series of computers (OpenVMS VAX Operating System Version 5.4 & 5.5)

Target: Any Host

* Compiler Vendor: Digital Equipment Corporation

Compiler Type: Derived

Date of Validation by Registration: 8/30/94

Validation Certificate #: 93031951.11315 (BASE)

Compiler Name: DEC Ada for OpenVMS VAX Systems, Version 3.0-7

Host: VAXserver 3000, 4000, & 6000 series of computers (OpenVMS VAX Operating System Version 5.4 & 5.5)

Target: Any Host

* Compiler Vendor: Digital Equipment Corporation

Compiler Type: Base

Date of Validation by Registration: 3/31/93

Validation Certificate #: 93031951.11315 (BASE)

Compiler Name: DEC Ada for OpenVMS VAX Systems, Version 3.0-7

Host: DEC 3000 Model 400 (OpenVMS VAX Operating System Version 1.3)

Target: Same as Host

* Compiler Vendor: Digital Equipment Corporation

Compiler Type: Derived

Date of Validation by Registration: 11/16/93

Validation Certificate #: 930102951.11330 (BASE)

Compiler Name: DEC Ada for OpenVMS VAX Systems, Version 3.1

Host: DEC 2000 Server, 3000 Workstation and Server models, 4000, 7000, & 10000 series of AXP computers (OpenVMS AXP Operation System Version 1.3)

Target: Any Host

* Compiler Vendor: Digital Equipment Corporation

Compiler Type: Base

Date of Validation by Registration: 1/28/92

Validation Certificate #: 94092951.11378 (BASE)

Compiler Name: DEC Ada for OpenVMS VAX Systems, Version 3.2

Host: DEC 2000 Server, 3000 Workstation and Server models, 4000, 7000, & 10000 series of AXP computers (OpenVMS VAX Operating System Version 3.0 with patch OSFV30-010-1)

Target: Any Host

* Compiler Vendor: Digital Equipment Corporation

Compiler Type: Derived

Date of Validation by Registration: 1/28/92

Validation Certificate #: 94092951.11378 (BASE)

Compiler Name: DEC Ada for OpenVMS VAX Systems, Version 3.2

Host: DEC 2000 Server, 3000 Workstation and Server models, 4000, 7000, & 10000 series of AXP computers (OpenVMS VAX Operating System Version 3.0 with patch OSFV30-010-1)

Target: Any Host
Ada PROCESSORS, Continued

* Compiler Vendor: Digital Equipment Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 10/18/94
  Validation Certificate #: 940923S111378 (BASE)
  Compiler Name: DEC Ada for DEC OSF/1 AXP Systems, Version 3.2
  Host: DEC 3000 Model 400 AXP Workstation (under DEC OSF/1, Version 3.0 with patch OSFV30-010-1)
  Target: Same as Host

* Compiler Vendor: Digital Equipment Corporation
  Compiler Type: Base
  Validation Certificate #: 850300S111381
  Compiler Name: DEC Ada for OpenVMS Alpha Systems, Version 3.2
  Host: DEC 3000 Model 400 AXP Workstation (under OpenVMS Alpha Operating System, Version 6.1)
  Target: Same as Host

* Compiler Vendor: Digital Equipment Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 3/15/95
  Validation Certificate #: 850300S111381 (BASE)
  Compiler Name: DEC Ada for OpenVMS Alpha Systems, Version 3.2
  Host: Digital AlphaServer 200, 400, 1000, 2000, & 2100 Products; and DEC 2000, 3000, 4000, 7000, & 10000 series of Digital Alpha Systems computer families (under OpenVMS Alpha Operating System Version 6.1)
  Target: Any Host

Compiler Vendor: Dowty Maritime Limited
Address: RENAMED Ultra Electronics
Knives Beech Business Center
Loudwater High, Wycombe
City: Buckinghamshire
State: UNITED KINGDOM
Zip Code: HP10 9UT
Country: UNITED KINGDOM
Contact Name: Keith Hardy
Phone: +44 1628 530000
E-mail:

* Compiler Vendor: Dowty Maritime
  Compiler Type: Derived
  Date of Validation by Registration: 9/30/93
  Validation Certificate #: 910325S111399 (BASE)
  Compiler Name: TeleGen2 Ada Cross Development System, Version 3.2 for VAX/VMS to 386
  Host: DEC VAX-11, MicroVAX, VAXserver, VAXstation, VAXt; and VAX 4000, 6000, 7000, 8000, 9000, & 10000 series of computers (under VMS 5.5-2)
  Target: All members of the Intel ISBC 386 & ISBC 486 model series
  (bare machines, using TeleAda-EXEC 3.2)

Compiler Vendor: E-Systems, ECI Division
Address: E-Systems, ECI Division
City:
State: Pennsala
Zip Code: 03232
Country: United States
Contact Name: E-Systems
Phone: +1 617 538 8000
E-mail:

* Compiler Vendor: E-Systems/ECI Division
  Compiler Type: Base
  Validation Certificate #: 901003W111039
  Compiler Name: Tolerant Ada Development System, Version 6.0
  Host: Tolerant Eternity (under TX, 5.4.0)
  Target: Same as Host

Compiler Vendor: EDS Defence Limited
Address: Pembroke House
Pembroke Broadway
Camberley
City: Surrey
State: UNITED KINGDOM
Zip Code: GU15 3XU
Country: UNITED KINGDOM
Contact Name: Ghanesh Narine
Phone: +44 276 686200
E-mail: (No e-mail address given)

* Compiler Vendor: EDS Defence Limited
  Compiler Type: Derived
  Date of Validation by Registration: 4/14/94
  Validation Certificate #: 901007N111042 (BASE)
  Compiler Name: XD Ada MC68020, Version 1.3-10
  Host: MicroVAX 3100 (under VMS 6.0)
  Target: Motorola MVME133X board (68020/68882)

* Compiler Vendor: EDS Defence Limited
  Compiler Type: Derived
  Date of Validation by Registration: 5/11/94
  Validation Certificate #: 901007N111042 (BASE)
  Compiler Name: XD Ada MC68020/EFA, Version 1.3-28
  Host: MicroVAX 3100 (under VMS 6.0)
  Target: Motorola MVME135-1 board (68020/68881) (bare machine)

* Compiler Vendor: EDS Defence Limited
  Compiler Type: Derived
  Date of Validation by Registration: 7/8/94
  Validation Certificate #: 901007N111042 (BASE)
  Compiler Name: XD Ada CPU32, Version 1.3-13
  Host: MicroVAX 3100 (under VMS 6.0)
  Target: Motorola M68332/EV Evaluation System (MC68332) CPU32, with 128K additional RAM and MC68881 fpu (bare machine)

* Compiler Vendor: EDS Defence Limited
  Compiler Type: Derived
  Date of Validation by Registration: 9/23/94
  Validation Certificate #: 901007N111042 (BASE)
  Compiler Name: XD Ada CPU32/MC68332, Version 1.3-15
  Host: MicroVAX 3100 (under VMS 6.0)
  Target: Motorola M68332/EV Evaluation System (MC68332) CPU32, with 128K additional RAM and MC68881 fpu (bare machine)

* Compiler Vendor: EDS Defence Limited
  Compiler Type: Derived
  Date of Validation by Registration: 9/23/94
  Validation Certificate #: 901007N111042 (BASE)
  Compiler Name: XD Ada CPU32/MC68332, Version 1.3-15
  Host: MicroVAX 3100 (under VMS 6.0)
  Target: Motorola M68332/EV Evaluation System (MC68332) CPU32, with 128K additional RAM and MC68881 fpu (bare machine)

* Compiler Vendor: EDS Defence Limited
  Compiler Type: Derived
  Date of Validation by Registration: 10/7/90
  Validation Certificate #: 901007N111042 (BASE)
  Compiler Name: XD Ada CPU32/MC68332, Version 1.3-15
  Host: DECstation 3100 (under ULTRIX 3.1)
  Target: Same as Host

* Compiler Vendor: EDS Defence Limited
  Compiler Type: Derived
  Date of Validation by Registration: 5/25/94
  Validation Certificate #: 910314N111334 (BASE)
  Compiler Name: XD Ada MC68000, Version 1.3-12
  Host: MicroVAX 3100 (under VMS 6.0)
  Target: Motorola MC68000 on an MVME117-3FP MPU VME module using an MC68881 fpu (bare machine)
* Compiler Vendor: EDS Defence Limited
  * Date of Validation by Registration: 6/3/94
  * Validation Certificate #: 9010314N1.11134 (BASE)
  * Compiler Name: XD Ada MC68000/EFA, Version 1.3-27
  * Host: MicroVAX 3100 (under VMS 6.0)
  * Target: Motorola MC68000 on an MVME117-3FP MPU VME module using an MC6881 fpu (bare machine)

* Compiler Vendor: EDS Defence Limited
  * Date of Validation by Registration: 11/14/94
  * Validation Certificate #: 910911N1.11199 (BASE)
  * Compiler Name: XD Ada MC68020/ARTX, Version 1.3-23
  * Host: MicroVAX 3100 (under VMS 6.0)
  * Target: Motorola MVME147S-1 (68030) (bare machine using the ARTX Real Time Executive)

* Compiler Vendor: EDS Defence Limited
  * Date of Validation by Registration: 5/19/94
  * Validation Certificate #: 911128N1.11230 (BASE)
  * Compiler Name: XD Ada MC68040, Version 1.3-37
  * Host: MicroVAX 3100 (under VMS 6.0)
  * Target: Motorola MVME167 (68040) (bare machine using ARTX Real Time Executive)

* Compiler Vendor: EDS Scicon
  * Address: U.S. Software Products Group
  * 8 New England Executive Park
  * City: Burlington
  * State: MA
  * Zip Code: 01803
  * Country: USA
  * Contact Name: Alistair Wilson
  * Phone: (617) 273-3030, ext. 229
  * E-mail: (No e-mail address given)

* Compiler Vendor: EDS Scicon
  * Compiler Type: Base
  * Validation Certificate #: 921112N1.11297
  * Compiler Name: XD Ada MC68040/ARTX, Version 1.2
  * Host: Local Area VAX Cluster (comprising VAXserver 3600, MicroVAX 2000 (2), & MicroVAX II machines) (under VMS 5.5)
  * Target: Motorola MVME167 (68040) (bare machine)

* Compiler Vendor: Encore Computer Corporation
  * Address: 6001 W. Sunrise Blvd.
  * City: Ft. Lauderdale
  * State: FL
  * Zip Code: 33313
  * Country: USA
  * Contact Name: Gary Beerman
  * Phone: (305) 567-2900, ext. 2360
  * E-mail: (No e-mail address given)

* Compiler Vendor: Encore Computer Corporation
  * Compiler Type: Base
  * Validation Certificate #: 910130W1.11114
  * Compiler Name: Parallel Ada Development System, Revision 1.0
  * Host: Encore 91 Series Model 91-0340 (under UMAX 3.0)
  * Target: Same as Host

* Compiler Vendor: Encore Computer Corporation
  * Compiler Type: Derived
  * Date of Validation by Registration: 4/17/91
  * Validation Certificate #: 910130W1.11114 (BASE)
  * Compiler Name: Parallel Ada Development System, Revision 1.0
  * Host: Encore 91 Series, all models (under UMAX 3.0)
  * Target: Any Host

* Compiler Vendor: Encore Computer Corporation
  * Compiler Type: Derived
  * Date of Validation by Registration: 5/8/92
  * Validation Certificate #: 910130W1.11114 (BASE)
  * Compiler Name: Parallel Ada Development System, Revision 2.0
  * Host: Encore 91, 93, & 94 Series, all models (under UMAX 3.0)
  * Target: Any Host

* Compiler Vendor: Encore Computer Corporation
  * Compiler Type: Derived
  * Date of Validation by Registration: 6/30/93
  * Validation Certificate #: 910130W1.11114 (BASE)
  * Compiler Name: Parallel Ada Development System, Revision 2.2.0
  * Host: Encore Infinity 90 Series, all models (under UMAX 3.0.X)
  * Target: Any Host

* Compiler Vendor: Encore Computer Corporation
  * Compiler Type: Derived
  * Date of Validation by Registration: 6/30/93
  * Validation Certificate #: 910130W1.11114 (BASE)
  * Compiler Name: Parallel Ada Development System, Revision 2.2.0
  * Host: Encore 93 Series, all models (under UMAX 3.1.X)
  * Target: Any Host

* Compiler Vendor: Encore Computer Corporation
  * Compiler Type: Derived
  * Date of Validation by Registration: 3/1/94
  * Validation Certificate #: 910130W1.11114 (BASE)
  * Compiler Name: Parallel Ada Development System, Revision 2.3.0
  * Host: Encore Infinity 90 Series, all models (under UNMAK 3.0.X)
  * Target: Any Host

* Compiler Vendor: Encore Computer Corporation
  * Compiler Type: Derived
  * Date of Validation by Registration: 3/1/94
  * Validation Certificate #: 910130W1.11114 (BASE)
  * Compiler Name: Parallel Ada Development System, Revision 2.3.0
  * Host: Encore 91 Series, all models (under UMAX 3.0.X)
  * Target: Any Host

* Compiler Vendor: Encore Computer Corporation
  * Compiler Type: Derived
  * Date of Validation by Registration: 3/1/94
  * Validation Certificate #: 910130W1.11114 (BASE)
  * Compiler Name: Parallel Ada Development System, Revision 2.3.0
  * Host: Encore Infinity R/T series, all models (under UMAX 3.0.X)
  * Target: Any Host

* Compiler Vendor: Encore Computer Corporation
  * Compiler Type: Derived
  * Date of Validation by Registration: 3/1/94
  * Validation Certificate #: 910130W1.11114 (BASE)
  * Compiler Name: Parallel Ada Development System, Revision 2.3.0
  * Host: Encore 91 Series Model 91-0340 (under UMAX 3.0)
  * Target: Any Host
* Compiler Vendor: Encore Computer Corporation  
  Compiler Type: Derived  
  Date of Validation by Registration: 6/8/92  
  Validation Certificate #: 910130W1.11115 (BASE)  
  Compiler Name: Parallel Ada Development System, Revision 2.0  
  Host: Encore 91 Series, all models (under UMAX 3.0)  
  Target: Encore 91 Series, all models (under microMPX 1.0)

* Compiler Vendor: Encore Computer Corporation  
  Compiler Type: Derived  
  Date of Validation by Registration: 6/30/93  
  Validation Certificate #: 910130W1.11115 (BASE)  
  Compiler Name: Parallel Ada Development System, Revision 2.2.0  
  Host: Encore 91 Series, all models (under UMAX 3.0.X)  
  Target: Any Host machine (under MicroARTE 1.2.0)

* Compiler Vendor: Encore Computer Corporation  
  Compiler Type: Derived  
  Date of Validation by Registration: 3/1/94  
  Validation Certificate #: 910130W1.11115 (BASE)  
  Compiler Name: Parallel Ada Development System, Revision 2.3.0  
  Host: Encore 91 Series, all models (under UMAX 3.0.X)  
  Target: Any Host machine (under ARTE Target Runtime 2.0.0)

* Compiler Vendor: Encore Computer Corporation  
  Compiler Type: Derived  
  Date of Validation by Registration: 3/1/94  
  Validation Certificate #: 910130W1.11115 (BASE)  
  Compiler Name: Parallel Ada Development System, Revision 2.3.0  
  Host: Encore 91 Series, all models (under UMAX 3.0.X)  
  Target: Any Host machine (under ARTE 2.0.0)

Compiler Vendor: Green Hills Software, Inc.  
Address: Owned and Operated by Oasys  
1 Cranberry Hill Street  
City: Lexington  
State: MA  
Zip Code: 02173  
Country:  
Contact Name: Carol Prevost  
Phone: (800) 500-2580  
E-mail: SUPPORT@GHS.COM

* Compiler Vendor: Green Hills Software, Inc.  
  Compiler Type: Base  
  Validation Certificate #: 940223W1.11338  
  Compiler Name: Green Hills Optimizing Ada Compiler, Version 1.8.7  
  Host: SPARCstation 10 (under SunOS, Release 4.1.3)  
  Target: Same as Host

* Compiler Vendor: Green Hills Software, Inc.  
  Compiler Type: Base  
  Validation Certificate #: 940223W1.11339  
  Compiler Name: Green Hills Optimizing Ada Compiler, Version 1.8.7  
  Host: SPARCstation 10 (under SunOS, Release 4.1.3)  
  Target: Force CPU-40 (58040) (bare machine using VxWorks, 5.1)
Ada PROCESSORS, Continued

* Compiler Vendor: GSE Gesellschaft fur Software-Engineering mbH
  Compiler Type: Base
  Validation Certificate #: 910711W1.11190
  Compiler Name: Meridian Ada, Version 4.1
  Host: HP 9000 Series 700 Model 720 (under HP-UX 8.01)
  Target: Same as Host

Compiler Vendor: Harris Computer Systems Corporation
Address: 2101 W. Cypress Creek Road
City: Ft. Lauderdale
State: FL
Zip Code: 33309-1892
Country: 
Contact Name: Jeff Hollensen
Phone: (305) 973-5427
E-mail: jeff.hollensen@mail.hsc.com

* Compiler Vendor: Harris Computer Systems Corporation
  Compiler Type: Base
  Validation Certificate #: 900918W1.11028
  Compiler Name: Harris Ada Compiler, Version 5.1
  Host: Harris NH-4400 (under CX/UX 5.1)
  Target: Same as Host

* Compiler Vendor: Harris Computer Systems Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 10/31/90
  Validation Certificate #: 900918W1.11028 (BASE)
  Compiler Name: Harris Ada Compiler, Version 5.1
  Host: Harris NH-4400 (under CX/UX 5.1, CX/RT 5.1, or CX/SX 5.1)
  Target: Any Host

* Compiler Vendor: Harris Computer Systems Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 4/22/91
  Validation Certificate #: 900918W1.11028 (BASE)
  Compiler Name: Harris Ada Compiler, Version 5.1
  Host: Harris NH-4400 (under CX/UX 5.2, CX/RT 5.2 & CX/SX 5.2)
  Target: Same as Host

* Compiler Vendor: Harris Computer Systems Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 8/28/91
  Validation Certificate #: 900918W1.11028 (BASE)
  Compiler Name: Harris Ada Compiler, Version 5.1.1
  Host: Harris NH-4400 & NH-4800 (under CX/UX 5.3, CX/RT 5.3 & CX/SX 5.3)
  Target: Any Host (using either Harris Ada Run-time System or ARMS Run-time System)

* Compiler Vendor: Harris Computer Systems Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 3/30/92
  Validation Certificate #: 900918W1.11028 (BASE)
  Compiler Name: Harris Ada Compiler, Version 5.1.1
  Host: NH-4400 & NH-4800 (under CX/UX 6.1, CX/RT 6.1, & CX/SX 6.1)
  Target: Any Host (using either Harris Ada Run-time System or ARMS Run-time System)

* Compiler Vendor: Harris Computer Systems Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 8/10/92
  Validation Certificate #: 900918W1.11028 (BASE)
  Compiler Name: Harris Ada Compiler, Version 5.1.1
  Host: NH-4400, NH-4800, & NH-5800 (under CX/UX 6.2, CX/RT 6.2, & CX/SX 6.2)
  Target: Any Host (using either Harris Ada Run-time System or ARMS Run-time System)

* Compiler Vendor: Harris Computer Systems Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 3/30/93
  Validation Certificate #: 900918W1.11028 (BASE)
  Compiler Name: Harris Ada Compiler, Version 5.2
  Host: Harris NH-4400, -4800, & -5800 (under CX/UX 6.2, CX/RT 6.2, & CX/SX 6.2)
  Target: Harris NH-4400, NH-4800, & NH-5800 (Harris Ada runtime System & ARMS Run-time System)

* Compiler Vendor: Harris Computer Systems Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 11/17/93
  Validation Certificate #: 900918W1.11028 (BASE)
  Compiler Name: Harris Ada Compiler, Version 6.2
  Host: Harris NH-4400, NH-4800, & NH-5800 (under CX/UX 6.2, CX/RT 7.1 & CX/SX 6.2)
  Target: Any Host (using either Harris Ada Run-time System or ARMS Run-time System)

* Compiler Vendor: Harris Computer Systems Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 11/17/93
  Validation Certificate #: 900918W1.11028 (BASE)
  Compiler Name: Harris Ada Compiler, Version 7.1
  Host: Harris NH-4400, NH-4800, & NH-5800 (under CX/UX 7.1 & CX/RT 7.1)
  Target: Any Host (using either Harris Ada Run-time System or ARMS Run-time System)

* Compiler Vendor: Harris Computer Systems Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 3/1/94
  Validation Certificate #: 900918W1.11028 (BASE)
  Compiler Name: Harris Ada Compiler, Version 6.2
  Host: Harris NH-4400, NH-4800, & NH-5800 (under CX/UX 6.1, CX/RT 6.1, CX/SX 6.1, & CX/SX 6.2)
  Target: Any Host (using either Harris Ada Run-time System or ARMS Run-time System)

* Compiler Vendor: Harris Computer Systems Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 10/14/93
  Validation Certificate #: 900918W1.11028 (BASE)
  Compiler Name: Harris Ada Compiler, Version 7.1.1
  Host: Harris NH-4400, NH-4800, & NH-5800 (under CX/UX 7.1 & CX/RT 7.1)
  Target: Any Host (using either Harris Ada Run-time System or ARMS Run-time System)

* Compiler Vendor: Harris Computer Systems Corporation
  Compiler Type: Base
  Validation Certificate #: 900918W1.11029
  Compiler Name: Harris Ada Compiler, Version 5.1
  Host: Harris NH-3800 (under CX/UX 5.1)
  Target: Same as Host

* Compiler Vendor: Harris Computer Systems Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 10/31/90
  Validation Certificate #: 900918W1.11029 (BASE)
  Compiler Name: Harris Ada Compiler, Version 5.1
  Host: Harris NH-1200, NH-3400 & NH-3600 (under CX/UX 5.1, CX/RT 5.1, or CX/SX 5.1)
  Target: Any Host
Ada PROCESSORS, Continued

* Compiler Vendor: Harris Computer Systems Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 4/22/91
  Validation Certificate #: 900918W1.11029 (BASE)
  Compiler Name: Harris Ada Compiler, Version 5.1
  Host: NH-1200, NH-3400 & NH-3800 (under CX/UX 5.2, CX/RT 5.2 & CX/SX 5.2)
  Target: Same as Host

* Compiler Vendor: Harris Computer Systems Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 8/28/91
  Validation Certificate #: 900918W1.11029 (BASE)
  Compiler Name: Harris Ada Compiler, Version 5.1.1
  Host: Harris NH-1200, NH-3400 & NH-3800 (under CX/UX 5.3, CX/RT 5.3 & CX/SX 5.3)
  Target: Any Host

* Compiler Vendor: Harris Computer Systems Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 3/30/92
  Validation Certificate #: 900918W1.11029 (BASE)
  Compiler Name: Harris Ada Compiler, Version 5.1.1
  Host: Harris NH-1200, NH-3400 & NH-3800 (under CX/UX 6.1, CX/RT 6.1, & CX/SX 6.1)
  Target: Any Host

Compiler Vendor: Hewlett-Packard Company
Address: (Hewlett-Packard Ada products are now Alsys)
(Alsys) Thomson Software Products
67 South Bedford Street
City: Burlington
State: MA
Zip Code: 01803-5152
Country:
Contact Name: Pat Michalowski
Phone: (619) 457-2700
E-mail: patm@alsys.com

* Compiler Vendor: Hewlett-Packard Company
  Compiler Type: Base
  Validation Certificate #: 901022W1.11049
  Compiler Name: HP 9000 Series 300 Ada Compiler, Version 5.35
  Host: HP 9000 Series 300 Model 370 (under HP-UX, Version A.07.00)
  Target: Same as Host

* Compiler Vendor: Hewlett-Packard Company
  Compiler Type: Derived
  Date of Validation by Registration: 11/23/90
  Validation Certificate #: 901022W1.11049 (BASE)
  Compiler Name: HP 9000 Series 300 Ada Compiler, Version 5.35
  Host: HP 9000 Series 300 & 400, all models (under HP-UX, Version A.B7.03)
  Target: Any Host

* Compiler Vendor: Hewlett-Packard Company
  Compiler Type: Derived
  Date of Validation by Registration: 8/2/91
  Validation Certificate #: 901022W1.11049 (BASE)
  Compiler Name: HP 9000 Series 300 Ada Compiler, Version 5.35
  Host: HP 9000 Series 300 & 400, all Models (under HP-UX, Versions A.B7.00 (release 7.0), A.B7.03 (release 7.3), A.B7.05 (release 7.5) & A.B8.00 (release 8.0), as supported)
  Target: Any Host from the same Series, under the same OS version

Compiler Vendor: Hewlett-Packard Company
Address: (Hewlett-Packard Ada products are now Alsys)
(Alsys) Thomson Software Products
67 South Bedford Street
City: Burlington
State: MA
Zip Code: 01803-5152
Country:
Contact Name: Pat Michalowski
Phone: (619) 457-2700
E-mail: patm@alsys.com

* Compiler Vendor: Hewlett-Packard Company, Apollo Systems Division
  Compiler Type: Base
  Validation Certificate #: 910411W1.11137
  Compiler Name: Domain Ada, Version 6.0m
  Host: DN4500 (under Domain/OS SR10.3)
  Target: Same as Host

* Compiler Vendor: Hewlett-Packard Company, Apollo Systems Division
  Compiler Type: Base
  Validation Certificate #: 910411W1.11138
  Compiler Name: Domain Ada, Version 6.0p
  Host: DN10000 (under Domain/OS SR10.3.p)
  Target: Same as Host

Compiler Vendor: IBM Canada, Ltd.
Address: (IBM Canada Ada products are now OC Systems)
OC Systems
9000 Lee Highway, Suite 270
City: Fairfax
State: VA
Zip Code: 22030
Country:
Contact Name: Oliver E. Cole
Phone: (703) 359-8100
E-mail: info@ocsystems.com

* Compiler Vendor: IBM Canada, Ltd.
  Compiler Type: Base
  Validation Certificate #: 901127W1.11085
  Compiler Name: AIX Ada/6000 Release 2, Preliminary Version
  Host: RISC System/6000 model 7013-530 (under AIX 3.1)
  Target: Same as Host

* Compiler Vendor: IBM Canada, Ltd.
  Compiler Type: Derived
  Date of Validation by Registration: 3/21/91
  Validation Certificate #: 901127W1.11085 (BASE)
  Compiler Name: AIX Ada/6000 Release 2.0
  Host: RISC System/6000 models 7013-320, -520, -530, -540, -550, -720 & -930 (under AIX 3.1)
  Target: Any Host

* Compiler Vendor: IBM Canada, Ltd.
  Compiler Type: Derived
  Date of Validation by Registration: 2/21/92
  Validation Certificate #: 901127W1.11085 (BASE)
  Compiler Name: AIX Ada/6000 Release 2.2
  Host: RISC System/6000 models 7013-320, -520, -530, -540, -550, -730 & -930 (under AIX 3.1 & 3.2)
  Target: Any Host, running same AIX version as Host

* Compiler Vendor: IBM Canada, Ltd.
  Compiler Type: Derived
  Date of Validation by Registration: 7/1/94
  Validation Certificate #: 910612W1.11169 (BASE)
  Compiler Name: OCS Legacy Ada/370 MVS, Version 2.0
  Host: IBM 337x, 34xx, 308x, 3000, and ES/9000 processors (under MVS/ESA 3.1.0, 4.1.0, & 4.3.0; & MVS/SP XA 2.2)
  Target: Same as Host

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* Compiler Vendor: IBM Canada, Ltd.
  Compiler Type: Base
  Validation Certificate #: 920121W1.11234
  Compiler Name: AIX Ada/6000 Internal Development Version
  Host: RISC System/6000 model 7012-320 (under AIX 3.2)
  Target: Same as Host

* Compiler Vendor: IBM Canada, Ltd.
  Compiler Type: Derived
  Date of Validation by Registration: 6/9/92
  Validation Certificate #: 920121W1.11234 (BASE)
  Compiler Name: AIX Ada/6000 Release 3.0
  Host: RISC System/6000, all models (under AIX 3.2)
  Target: Any Host

* Compiler Vendor: IBM Canada, Ltd.
  Compiler Type: Base
  Validation Certificate #: 921119W1.11299
  Compiler Name: XL Ada/6000 Internal Development Version
  Host: RISC System/6000, model 7013-520 (under AIX 3.2)
  Target: Same as Host

Compiler Vendor: IBM Corporation
Address: (IBM Corp. Ada products are now OC Systems)
OC Systems
9900 Lee Highway, Suite 270
City: Fairfax
State: VA
Zip Code: 22030
Country: Contact Name: Oliver E. Cole
Phone: (703) 359-8160
E-mail: info@ocsystems.com

* Compiler Vendor: IBM Corporation
  Compiler Type: Base
  Validation Certificate #: 901128W1.11091
  Compiler Name: IBM Ada/370, Version 1.1.0
  Host: IBM 3083 (under VM/SP HPO Release 5.0)
  Target: Same as Host

* Compiler Vendor: IBM Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 6/24/91
  Validation Certificate #: 901128W1.11091 (BASE)
  Compiler Name: IBM Ada/370, Version 1.1.0
  Host: IBM 3080 (under VM/ESA Release 1.0 ESA Feature)
  Target: Same as Host

* Compiler Vendor: IBM Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 6/24/91
  Validation Certificate #: 901128W1.11091 (BASE)
  Compiler Name: IBM Ada/370, Version 1.1.0
  Host: IBM 3084 (under VM/ESA Release 1.0 370 Feature)
  Target: Same as Host

* Compiler Vendor: IBM Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 6/24/91
  Validation Certificate #: 901128W1.11091 (BASE)
  Compiler Name: IBM Ada/370, Version 1.1.0
  Host: IBM 3090 (under VM/XA Release 2.1)
  Target: Same as Host
Ada PROCESSORS, Continued

* Compiler Vendor: IBM Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 10/25/91
  Validation Certificate #: 910612W1.11168 (BASE)
  Compiler Name: IBM Ada/370, Version 1.2.0
  Host: IBM 3090 (under VM/ESA 1.1.0 (ESA Feature))
  Target: IBM 937x, 43xx, 308x, 3090 & ES/9000 computers (under VM/ESA 1.1.1)

* Compiler Vendor: IBM Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 10/25/91
  Validation Certificate #: 910612W1.11168 (BASE)
  Compiler Name: IBM Ada/370, Version 1.2.0
  Host: IBM 3090 (under VM/ESA 1.1.1)
  Target: IBM 937x, 43xx, 308x, 3090 & ES/9000 processors (under same OS as Host)

* Compiler Vendor: IBM Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 5/28/93
  Validation Certificate #: 910612W1.11169
  Compiler Name: IBM Ada/370, Version 1.2.0 (unoptimized)
  Host: IBM 4381 (under MVS/ESA Release 3.1)
  Target: Same as Host

* Compiler Vendor: IBM Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 10/30/91
  Validation Certificate #: 910612W1.11169 (BASE)
  Compiler Name: IBM Ada/370, Version 1.2.0 & 1.3.0
  Host: IBM 3090 (under MVS/SP XA 2.2)
  Target: IBM 937x, 43xx, 308x, 3090 & ES/9000 processors (under MVS/SP XA 2.2)

* Compiler Vendor: IBM Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 12/17/91
  Validation Certificate #: 910612W1.11169 (BASE)
  Compiler Name: IBM Ada/370, Version 1.2.0
  Host: IBM 3090 (under MVS/ESA Release 4.1.0)
  Target: IBM 937x, 43xx, 308x, 3090 & ES/9000 processors (MVS/ESA Release 4.1.0)

* Compiler Vendor: IBM Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 12/17/91
  Validation Certificate #: 910612W1.11169 (BASE)
  Compiler Name: IBM Ada/370, Version 1.2.0
  Host: IBM 3090 (under MVS/ESA Release 4.2.0)
  Target: IBM 937x, 43xx, 308x, 3090 & ES/9000 processors (MVS/ESA Release 4.2.0)

* Compiler Vendor: IBM Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 8/31/92
  Validation Certificate #: 910612W1.11169 (BASE)
  Compiler Name: IBM Ada/370, Version 1.3.0
  Host: IBM 3090 (under MVS/ESA 4.1.0 & 4.2.0)
  Target: IBM 937x, 43xx, 308x, 3090, & ES/9000 computers (under same OS as Host)
Ada PROCESSORS, Continued

* Compiler Vendor: Intermatics, Inc.
  Compiler Type: Base
  Validation Certificate #: 930901W1.11321
  Compiler Name: RISCAE TRW RH32-targeted Ada Compiler, Ver 1.0
  Host: VAXstation 4000 (under VMS 5.5)
  Target: RISCAE TRW RH32 Simulator (bare machine simulation, executing on the Host)

* Compiler Vendor: Intermatics, Inc.
  Compiler Type: Base
  Validation Certificate #: 930901W1.11322
  Compiler Name: RISCAE Honeywell RH32-targeted Ada Compiler, Version 1.0
  Host: VAXstation 4000 (under VMS 5.5)
  Target: RISCAE Honeywell RH32 Simulator (bare machine simulation, executing on the Host)

Compiler Vendor: International Computers Limited
Address: (now DESC Ltd.)
DESC Ltd.
Jays Close/Viables Industrial Estate, Basingstoke
City: Hampshire, RG22 4BY
State:
Zip Code:
Country: UNITED KINGDOM
Contact Name: Les Fairbrother
Phone: ++44 256.819711
E-mail: (No e-mail address given)

* Compiler Vendor: International Computers Limited
  Compiler Type: Base
  Validation Certificate #: 911003N1.1122
  Compiler Name: VME Ada Compiler, Version A3.00
  Host: ICL Series 39 Level 80 (under VME with VM6B Environment Option Version SV291)
  Target: Same as Host

* Compiler Vendor: International Computers Limited
  Compiler Type: Base
  Validation Certificate #: 921008N1.11293
  Compiler Name: VME Ada Compiler, Version A3.10
  Host: ICL Series 39 Level 80 (under VME with VM6B Environment Option Version SV292)
  Target: Same as Host

Compiler Vendor: Irvine Compiler Corporation
Address: 34 Executive Park, Suite 270
City: Irvine
State: CA
Zip Code: 92714
Country:
Contact Name: Joe Kohi
Phone: (714) 250-1368, ext. 210
E-mail: info@irvine.com

* Compiler Vendor: Irvine Compiler Corporation
  Compiler Type: Base
  Validation Certificate #: 910510W1.11145
  Compiler Name: ICC Ada, Version 7.0.0
  Host: HP 9000 Model 720 (under HP-UX Release 8.01)
  Target: Same as Host

* Compiler Vendor: Irvine Compiler Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 1/27/93
  Validation Certificate #: 910510W1.11145 (BASE)
  Compiler Name: ICC Ada for HP 9000 Series 700/800, Version 7.4
  Host: HP 9000 Series 700 & 800, all Models (under HP-UX Version A.B8.05 (release 8.05))
  Target: Any Host

* Compiler Vendor: Irvine Compiler Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 5/25/93
  Validation Certificate #: 910510W1.11145 (BASE)
  Compiler Name: ICC Ada for HP 9000 Series 700/800, Version 7.4
  Host: HP 9000 Series 700 & 800, all models (under HP-UX Versions 8.0 & 9.0, all releases; and HP-UX BLS Version 8.0, all releases)
  Target: Same as Host

* Compiler Vendor: Irvine Compiler Corporation
  Compiler Type: Base
  Validation Certificate #: 910510W1.11146
  Compiler Name: ICC Ada, Version 7.0.0
  Host: Sun 3/50 (under SunOS V4.0)
  Target: Same as Host

* Compiler Vendor: Irvine Compiler Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 1/27/93
  Validation Certificate #: 910510W1.11146 (BASE)
  Compiler Name: ICC Ada for Sun3, Version 7.4
  Host: Sun Microsystems Sun-3 computer family (under SunOS 4.0 & 4.1)
  Target: Any Host

* Compiler Vendor: Irvine Compiler Corporation
  Compiler Type: Base
  Validation Certificate #: 910510W1.11147
  Compiler Name: ICC Ada, Version 7.0.0
  Host: HP 9000 Model 400 (under HP-UX Release 7.03)
  Target: Same as Host

* Compiler Vendor: Irvine Compiler Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 1/27/93
  Validation Certificate #: 910510W1.11147 (BASE)
  Compiler Name: ICC Ada for HP 9000 Series 300/400, Version 7.4
  Host: HP 9000 Series 300 & 400, all Models (under HP-UX Version A.B8.05 (release 8.05))
  Target: Any Host

* Compiler Vendor: Irvine Compiler Corporation
  Compiler Type: Base
  Validation Certificate #: 910510W1.11148
  Compiler Name: ICC Ada, Version 7.0.0
  Host: VAXstation 3100 Model M38 (under VMS 5.3-1)
  Target: Intel i80860MC (bare machine)

* Compiler Vendor: Irvine Compiler Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 1/27/93
  Validation Certificate #: 910510W1.11148 (BASE)
  Compiler Name: ICC Ada for i6860MC, Version 7.4
  Host: DEC VAX-11, VAXserver, VAXstation, MicroVAX, VAX 4000, VAX 6000, VAX 8000, VAX 9000, & VAX 10000 series of computers (under VMS 5.4)
  Target: Intel i6860MC, with/without ICE960 on an Intel EXV809060MC board; any single-board computer using the i6860 chip; & Intel i6860 simulator, executing on the Host (bare machines)

* Compiler Vendor: Irvine Compiler Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 5/25/93
  Validation Certificate #: 910510W1.11148 (BASE)
  Compiler Name: ICC Ada for i6860MC, Version 7.4
  Host: HP 9000 Series 300 & 400, all models (under HP-UX Version 8.0, all releases)
  Target: Intel i6860MC, with/without ICE960 on an Intel EXV809060MC board; any single-board computer using the i6860 chip; & Intel i6860 simulator, executing on the Host (bare machines)
* Compiler Vendor: Irvine Compiler Corporation  
  Date of Validation by Registration: 5/25/93  
  Validation Certificate #: 910150W111148 (BASE)  
  Compiler Name: ICC Ada for i960MC, Version 7.4  
  Host: HP 9000 Series 700, all models (under HP-UX Version 8.0, all releases)  
  Target: Intel i960MC, with/without ICE960 on an Intel EXV80960MC board; any single-board computer using the i960 chip; & Intel i060 simulator, executing on the Host (bare machines)

* Compiler Vendor: Irvine Compiler Corporation  
  Date of Validation by Registration: 5/25/93  
  Validation Certificate #: 910150W111148 (BASE)  
  Compiler Name: ICC Ada for i960MC, Version 7.4  
  Host: Sun Microsystems Sun-3 computers, all models (under SunOS version 4.1.2 & Solaris version 1.0.1, all releases)  
  Target: Intel i960MC, with/without ICE960 on an Intel EXV80960MC board; any single-board computer using the i960 chip; & Intel i060 simulator, executing on the Host (bare machines)

* Compiler Vendor: Irvine Compiler Corporation  
  Date of Validation by Registration: 5/25/93  
  Validation Certificate #: 910150W111148 (BASE)  
  Compiler Name: ICC Ada for i960XA, Version 7.4  
  Host: DEC VAX-11, MicroVAX, VAXserver, VAXstation, VAXt; and VAX 4000, 6000, 7000, 8000, 9000, & 10000 series of computers (under VMS Version 5.4)  
  Target: Intel i960XAX, with/without ICE960 on an Intel EXV80960XAXA board; any single-board computer using the i960 chip; & Intel i060 simulator, executing on the Host (bare machines)

* Compiler Vendor: Irvine Compiler Corporation  
  Date of Validation by Registration: 5/25/93  
  Validation Certificate #: 90252001.11260  
  Compiler Name: ICC Ada for i960X, Version 7.4  
  Host: VAXstation 3100 Model M38 (under VMS Version 5.3-1)  
  Target: Intel i960MX in Hughes DMV running in tagged mode (bare machine, using CHKSYS kernel version 104)

* Compiler Vendor: Irvine Compiler Corporation  
  Date of Validation by Registration: 1/27/93  
  Validation Certificate #: 90252001.11260 (BASE)  
  Compiler Name: ICC Ada for i960MX and i960MM, Version 7.4  
  Host: DEC VAX-11, VAXserver, VAXstation, MicroVAX, VAX 4000, VAX 6000, VAX 8000, VAX 9000, & VAX 10000 Series of computers (under VMS Version 5.4)  
  Target: Intel i960MM & i960MX on a TRONIX P1960MX-JV1 JIAWG Execution Vehicle board; any single-board computer using the 960MM/MX superscalar chip; & Intel i060 simulator, executing on the Host (bare machine)

* Compiler Vendor: Irvine Compiler Corporation  
  Date of Validation by Registration: 5/25/93  
  Validation Certificate #: 910150W111148 (BASE)  
  Compiler Name: ICC Ada for i960MM and i960MX, Version 7.4  
  Host: HP 9000 Series 300 & 400, all models (under HP-UX Version 8.0, all releases)  
  Target: Intel i960MM & i960MX with/without ICE960, on a TRONIX P1960MX-JV1 JIAWG Execution Vehicle board; any single-board computer using the 960MM/MX superscalar chip; & Intel i060 simulator, executing on the Host (bare machine)

* Compiler Vendor: Irvine Compiler Corporation  
  Date of Validation by Registration: 5/25/93  
  Validation Certificate #: 90252001.11260 (BASE)  
  Compiler Name: ICC Ada for i960MM and i960MX, Version 7.4  
  Host: MicroVAX, all models (under SunOS Version 4.1.2 & Solaris version 1.0.1, all releases)  
  Target: Intel i960MM & i960MX with/without ICE960, on a TRONIX P1960MX-JV1 JIAWG Execution Vehicle board; any single-board computer using the 960MM/MX superscalar chip; & Intel i060 simulator, executing on the Host (bare machine)

* Compiler Vendor: Irvine Compiler Corporation  
  Date of Validation by Registration: 5/25/93  
  Validation Certificate #: 90252001.11260 (BASE)  
  Compiler Name: ICC Ada for i960MM and i960MX, Version 7.4  
  Host: Sun Microsystems Sun-3 computers, all models (under SunOS Version 4.1.2 & Solaris version 1.0.1, all releases)  
  Target: Intel i960MM & i960MX with/without ICE960, on a TRONIX P1960MX-JV1 JIAWG Execution Vehicle board; any single-board computer using the 960MM/MX superscalar chip; & Intel i060 simulator, executing on the Host (bare machine)

* Compiler Vendor: Irvine Compiler Corporation  
  Date of Validation by Registration: 5/25/93  
  Validation Certificate #: 90252001.11260 (BASE)  
  Compiler Name: ICC Ada for i960MM and i960MX, Version 7.4  
  Host: Sun Microsystems Sun-3 computers, all models (under SunOS Version 4.1.2 & Solaris version 1.0.1, all releases)  
  Target: Intel i960MM & i960MX with/without ICE960, on a TRONIX P1960MX-JV1 JIAWG Execution Vehicle board; any single-board computer using the 960MM/MX superscalar chip; & Intel i060 simulator, executing on the Host (bare machine)

* Compiler Vendor: Irvine Compiler Corporation  
  Date of Validation by Registration: 5/25/93  
  Validation Certificate #: 90252001.11260 (BASE)  
  Compiler Name: ICC Ada for i960MM and i960MX, Version 7.4  
  Host: Sun Microsystems Sun-3 computers, all models (under SunOS Version 4.1.2 & Solaris version 1.0.1, all releases)  
  Target: Intel i960MM & i960MX with/without ICE960, on a TRONIX P1960MX-JV1 JIAWG Execution Vehicle board; any single-board computer using the 960MM/MX superscalar chip; & Intel i060 simulator, executing on the Host (bare machine)

* Compiler Vendor: Meridian Software Systems, Inc.  
  Date of Validation by Registration: 5/25/93  
  Validation Certificate #: 90252001.11260 (BASE)  
  Compiler Name: Meridian Ada, Version 4.1  
  Host: Sun-3/250 (under SunOS, Version 4.1)  
  Target: Same as Host

* Compiler Vendor: Meridian Software Systems, Inc.  
  Date of Validation by Registration: 5/25/93  
  Validation Certificate #: 90252001.11260 (BASE)  
  Compiler Name: Meridian Ada, Version 4.1  
  Host: Sun-4/110 (under SunOS, Version 4.1)  
  Target: Same as Host

Compiler Vendor: Meridian Software Systems, Inc.  
Address: (Meridian Ada products are now Rational)  
Rational Software Corporation  
1500 NW Compton Drive, Suite 357  
City: Aloha  
State: OR  
Zip Code: 97006  
Country:  
Contact Name: Ben Priest  
Phone: (503) 690-1116, ext. 6703  
E-mail: brp@rational.com

* Compiler Vendor: Meridian Software Systems, Inc.  
  Date of Validation by Registration: 5/25/93  
  Validation Certificate #: 90252001.11260 (BASE)  
  Compiler Name: Meridian Ada, Version 4.1  
  Host: Sun-3/250 (under SunOS, Version 4.1)  
  Target: Same as Host

* Compiler Vendor: Meridian Software Systems, Inc.  
  Date of Validation by Registration: 5/25/93  
  Validation Certificate #: 90252001.11260 (BASE)  
  Compiler Name: Meridian Ada, Version 4.1  
  Host: Sun-4/110 (under SunOS, Version 4.1)  
  Target: Same as Host

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Ada PROCESSORS, Continued

* Compiler Vendor: Meridian Software Systems, Inc.
  Compiler Type: Derived
  Date of Validation by Registration: 11/4/91
  Validation Certificate #: 90009W1.11032 (BASE)
  Compiler Name: Meridian Ada, Version 4.1
  Host: Sun Microsystems Sun-4, SPARCserver & SPARCstation computer families (under SunOS Versions 4.1 & 4.1.1)
  Target: Any Host

* Compiler Vendor: Meridian Software Systems, Inc.
  Compiler Type: Base
  Validation Certificate #: 90009W1.11033
  Compiler Name: Meridian Ada, Version 4.1
  Host: DECstation 3100 (under Ulitrix, Version 3.0)
  Target: Same as Host

* Compiler Vendor: Meridian Software Systems, Inc.
  Compiler Type: Derived
  Date of Validation by Registration: 4/18/91
  Validation Certificate #: 90009W1.11033 (BASE)
  Compiler Name: Meridian Ada, Version 4.1
  Host: DECstation 2100, 3100 & 5000 (under Ulitrix 3.0)
  Target: Any Host

* Compiler Vendor: Meridian Software Systems, Inc.
  Compiler Type: Derived
  Date of Validation by Registration: 4/18/91
  Validation Certificate #: 90009W1.11034 (BASE)
  Compiler Name: Meridian Ada, Version 4.1
  Host: IBM PS/2 Model 60 (with Floating-Point Co-Processor) (under IBM PC-DOS 3.30)
  Target: Same as Host

* Compiler Vendor: Meridian Software Systems, Inc.
  Compiler Type: Derived
  Date of Validation by Registration: 4/18/91
  Validation Certificate #: 90009W1.11034 (BASE)
  Compiler Name: Meridian Ada, Version 4.1
  Host: Any Computer System comprising: cpu: any that executes the Intel 80286, 80386, or 80486 instruction set; fpu: Intel 80287, 80387, or equivalent, as appropriate, memory: 640 KByte RAM minimum, disk: 20 MByte hard drive, OS: IBM PC-DOS 3.30
  Target: Any Host

* Compiler Vendor: Meridian Software Systems, Inc.
  Compiler Type: Derived
  Date of Validation by Registration: 1/8/93
  Validation Certificate #: 90009W1.11035 (BASE)
  Compiler Name: Meridian Ada, Version 4.1
  Host: Any Computer System Comprising: Cpu: any that executes the Intel 80286 instruction set; Fpu: Intel 8087 or equivalent, as appropriate; Memory: 640 or greater KByte RAM; Disk: 20 MByte hard drive (under IBM PC-DOS 3.30)
  Target: Any Host

* Compiler Vendor: Meridian Software Systems, Inc.
  Compiler Type: Base
  Validation Certificate #: 90009W1.11036
  Compiler Name: Meridian Ada, Version 4.1
  Host: ITT XTRA/286 (with Floating-Point Co-Processor) (under MS-DOS 3.20/OS286)
  Target: Same as Host

* Compiler Vendor: Meridian Software Systems, Inc.
  Compiler Type: Derived
  Date of Validation by Registration: 4/18/91
  Validation Certificate #: 90009W1.11036 (BASE)
  Compiler Name: Meridian Ada, Version 4.1
  Host: Any Computer System comprising: cpu: any that executes the Intel 80286, 80386, or 80486 instruction set; fpu: Intel 80287, 80387, or equivalent, as appropriate, memory: 1.5 MByte RAM minimum, disk: 20 MByte hard drive, OS: MS-DOS 3.20/OS286
  Target: Any Host

* Compiler Vendor: Meridian Software Systems, Inc.
  Compiler Type: Derived
  Date of Validation by Registration: 12/30/91
  Validation Certificate #: 90009W1.11036 (BASE)
  Compiler Name: Meridian Ada, Version 4.1
  Host: Any Computer System Comprising: Cpu: any that executes the Intel 80286, 80386, or 80486 instruction set; fpu: Intel 80287, 80387, or equivalent, as appropriate; Memory: 1.5 or greater MByte RAM; Disk: 20 MByte hard drive (under MS-DOS 3.30/OS286)
  Target: Any Host

* Compiler Vendor: Meridian Software Systems, Inc.
  Compiler Type: Base
  Validation Certificate #: 90009W1.11035
  Compiler Name: Meridian Ada, Version 4.1
  Host: IBM PS/2 Model 30 (with Floating-Point Co-Processor) (under IBM PC-DOS 3.30)
  Target: Same as Host
Ada PROCESSORS, Continued

* Compiler Vendor: Meridian Software Systems, Inc.
  Compiler Type: Derived
  Date of Validation by Registration: 1/8/93
  Validation Certificate #: 900909/W1.11038 (BASE)
  Compiler Name: Meridian Ada, Version 4.1.4
  Host: Any Computer System Comprising: cpu: any that executes the Intel 80386, 80386, or 80486 instruction set; fpu: Intel 80287, 80387, or equivalent, as appropriate; memory: 1.5 MByte RAM; disk: 20 MByte hard drive (under MS-DOS 3.20/OS286)
  Target: Any Host

* Compiler Vendor: Meridian Software Systems, Inc.
  Compiler Type: Base
  Validation Certificate #: 900909/W1.11037
  Compiler Name: Meridian Ada, Version 4.1
  Host: 80 Data 386/25 (under 386ix 1.0b)
  Target: Same as Host

* Compiler Vendor: Meridian Software Systems, Inc.
  Compiler Type: Derived
  Date of Validation by Registration: 4/18/91
  Validation Certificate #: 900909/W1.11037 (BASE)
  Compiler Name: Meridian Ada, Version 4.1
  Host: Any Computer System Comprising: cpu: any that executes the Intel 80386 or 80486 instruction set, fpu: optional Intel 80387 or equivalent, for 80386 cpu, memory: 2 MByte RAM minimum, disk: 40 MByte hard drive, OS: SCO Unix 3.2 or Interactive 386/1.0b
  Target: Any Host machine running the same OS

* Compiler Vendor: Meridian Software Systems, Inc.
  Compiler Type: Derived
  Date of Validation by Registration: 4/18/91
  Validation Certificate #: 900909/W1.11037 (BASE)
  Compiler Name: Meridian Ada, Version 4.1
  Host: Sequent Symmetry 2000/40, /200, /400 & /700 (under DYNIX/ptx V1.2.0)
  Target: Any Host

* Compiler Vendor: Meridian Software Systems, Inc.
  Compiler Type: Derived
  Date of Validation by Registration: 12/30/91
  Validation Certificate #: 900909/W1.11037 (BASE)
  Compiler Name: Meridian Ada, Version 4.1.1
  Host: Any Computer System Comprising: Cpu: any that executes the Intel 80386 or 80486 instruction set; Fpu: Intel 80387 or equivalent, for 80386 cpu; Memory: 2 or greater MByte RAM; Disk: 40 MByte hard drive (under SCO Unix 3.2 or INTERACTIVE UNIX System V/386 Release 3.2)
  Target: Any Host with the same OS

* Compiler Vendor: Meridian Software Systems, Inc.
  Compiler Type: Base
  Validation Certificate #: 900909/W1.11038
  Compiler Name: Meridian Ada, Version 4.1
  Host: Apple Macintosh II (under System 6.0.3)
  Target: Same as Host

* Compiler Vendor: Meridian Software Systems, Inc.
  Compiler Type: Derived
  Date of Validation by Registration: 4/18/91
  Validation Certificate #: 900909/W1.11038 (BASE)
  Compiler Name: Meridian Ada, Version 4.1
  Host: Apple Macintosh SE 30 (under System 6.0.3)
  Target: Same as Host

* Compiler Vendor: Meridian Software Systems, Inc.
  Compiler Type: Base
  Validation Certificate #: 901109/W1.11060
  Compiler Name: Meridian Ada, Version 4.1
  Host: Apple Macintosh II (under AUX 2.0)
  Target: Same as Host

* Compiler Vendor: Meridian Software Systems, Inc.
  Compiler Type: Base
  Validation Certificate #: 901109/W1.11061
  Compiler Name: Meridian Ada, Version 4.1
  Host: Starldent Titan P3 (under Stardent/Unix 3.0)
  Target: Same as Host

* Compiler Vendor: Meridian Software Systems, Inc.
  Compiler Type: Base
  Validation Certificate #: 901109/W1.11062
  Compiler Name: Meridian Ada, Version 4.1
  Host: MicroVAX 3100 (under Ultrix 3.1)
  Target: Same as Host

* Compiler Vendor: Meridian Software Systems, Inc.
  Compiler Type: Base
  Validation Certificate #: 911002/W1.11218
  Compiler Name: Meridian Ada, Version 4.1.1
  Host: IBM PS/2 Model 80 (with Floating Point Co-Processor) (under IBM PC-DOS 3.30/OS286)
  Target: Same as Host

* Compiler Vendor: Meridian Software Systems, Inc.
  Compiler Type: Derived
  Date of Validation by Registration: 1/8/93
  Validation Certificate #: 911002/W1.11219
  Compiler Name: Meridian Ada, Version 4.1
  Host: NeXTStation (under System Release 2.0)
  Target: Same as Host

* Compiler Vendor: Meridian Software Systems, Inc.
  Compiler Type: Base
  Validation Certificate #: 911002/W1.11220
  Compiler Name: Meridian Ada, Version 4.1
  Host: SGI PowerSeries 4D/310S (under IRIX Sys V 3.3.2)
  Target: Mercury MC860 VM (under MC/OS, Version 2.0)

* Compiler Vendor: Meridian Software Systems, Inc.
  Compiler Type: Derived
  Date of Validation by Registration: 12/30/91
  Validation Certificate #: 911002/W1.11220 (BASE)
  Compiler Name: Meridian Ada, Version 4.1
  Host: SGI PowerSeries 4D/310S (under IRIX Sys V 3.3.2)
  Target: Mercury MC860VB & MC860VM (under MC/OS, Version 2.0)

* Compiler Vendor: Meridian Software Systems, Inc.
  Compiler Type: Derived
  Date of Validation by Registration: 12/30/91
  Validation Certificate #: 911002/W1.11220 (BASE)
  Compiler Name: Meridian Ada, Version 4.1
  Host: SGI PowerSeries 4D/310S (under IRIX Sys V 3.3.2)
  Target: Mercury MC860VS (under MC/OS, Version 2.0)
* Compiler Vendor: Meridian Software Systems, Inc.
  Compiler Type: Base
  Validation Certificate #: 911002W11.11221
  Compiler Name: Meridian Ada, Version 4.1
  Host: Sun-4/110 (under SunOS, Version 4.1)
  Target: Mercury MC680 VM (under MC/OS, Version 2.0)
* Compiler Vendor: Meridian Software Systems, Inc.
  Compiler Type: Derived
  Date of Validation by Registration: 12/30/91
  Validation Certificate #: 911002W11.11221 (BASE)
  Compiler Name: Meridian Ada, Version 4.1
  Host: Sun Microsystems Sun-4/110, /50, /280 & /280; SPARCserver 330, 370, 390, 470 & 490; and SPARCstation 2, IPC & IPX (under SunOS Versions 4.1 & 4.1.1) and SPARCommand 1E (under SunOS Version 4.1.e) Target: Mercury MC860VM & MC860VM (under MC/OS, Version 2.0) and Mercury MC860VS (under MC/OS, Version 2.0)
* Compiler Vendor: Meridian Software Systems, Inc.
  Compiler Type: Base
  Validation Certificate #: 920915W11.11266
  Compiler Name: Meridian Ada, Version 4.1
  Host: Intergraph Interpro 2400 (under CLIX System 5, Release 3.1) Target: Same as Host
* Compiler Vendor: Meridian Software Systems, Inc.
  Compiler Type: Derived
  Date of Validation by Registration: 1/8/93
  Validation Certificate #: 920915W11.11266 (BASE)
  Compiler Name: Meridian Ada, Version 4.1
  Host: Intergraph Interpro Series C300- & C400-based models (under CLIX, System 5 Release 3.1) Target: Any Host
* Compiler Vendor: Meridian Software Systems, Inc.
  Compiler Type: Base
  Validation Certificate #: 920915W11.11267
  Compiler Name: Meridian Ada, Version 4.1
  Host: Essence BS6 (under DOS 5.0, running Microsoft Windows 3.0) Target: Same as Host
* Compiler Vendor: Meridian Software Systems, Inc.
  Compiler Type: Base
  Validation Certificate #: 920915W11.11268
  Compiler Name: Meridian Ada, Version 4.1
  Host: BBN TC2000 (under nX 3.0.1) Target: Same as Host
* Compiler Vendor: Meridian Software Systems, Inc.
  Compiler Type: Base
  Validation Certificate #: 920915W11.11269
  Compiler Name: Meridian Ada, Version 4.1
  Host: BBN TC2000 (under nX 3.0.1) Target: BBN TC2000 (under pSOS+/88k)
* Compiler Vendor: Meridian Software Systems, Inc.
  Compiler Type: Base
  Validation Certificate #: 921202W11.11301
  Compiler Name: Meridian Ada, Version 4.1
  Host: HP 9000/827 (under HP-UX 8.02) Target: Same as Host
* Compiler Vendor: Meridian Software Systems, Inc.
  Compiler Type: Base
  Validation Certificate #: 930401W11.1313
  Compiler Name: Meridian Ada, Version 4.1.3
  Host: Motorola VME 187-68040 (under OS/9 88K, v2.4) Target: Same as Host
* Compiler Vendor: Meridian Software Systems, Inc.
  Compiler Type: Base
  Validation Certificate #: 930401W11.1314
  Compiler Name: Meridian Ada, Version 4.1.3
  Host: Essence 488 (under MS-DOS 5.0) Target: ADSP-21020 (bare machine)
Compiler Vendor: Multi processor Toolsmiths, Inc.
Address: 302 Legget Drive, Suite 200
City: Kanata, Ontario
State: Zip Code: K2K 1Y5
Country: CANADA
Contact Name: Kim Rowe
Phone: (613) 599-9565
E-mail: (No e-mail address given)
* Compiler Vendor: Multi processor Toolsmiths, Inc.
  Compiler Type: Base
  Validation Certificate #: 93072W11.11318
  Compiler Name: CASEWorks/RT Ada for the Sun SPARCstation, Version 1.1
  Host: Sun SPARCstation 10 (under SunOS 4.1.3) Target: Same as Host
* Compiler Vendor: Multi processor Toolsmiths, Inc.
  Compiler Type: Derived
  Date of Validation by Registration: 11/15/93
  Validation Certificate #: 93072W11.11318 (BASE)
  Compiler Name: CASEWorks/RT Ada for the Sun SPARCstation, Version 1.1
  Host: Sun Microsystems SPARCstation series (under SunOS 4.11, 4.1.2, & 4.1.3) Target: Any Host
* Compiler Vendor: Multi processor Toolsmiths, Inc.
  Compiler Type: Base
  Validation Certificate #: 93072W11.11319
  Compiler Name: CASEWorks/RT Ada MC6800x, Version 1.1
  Host: Sun SPARCstation 10 (under SunOS 4.1.3) Target: Motorola MMX147 (bare machine)
### Ada PROCESSORS, Continued

<table>
<thead>
<tr>
<th>Compiler Vendor</th>
<th>Compiler Type</th>
<th>Date of Validation by Registration</th>
<th>Validation Certificate #</th>
<th>Compiler Name</th>
<th>Target</th>
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<tbody>
<tr>
<td>Multiprocessor Toolsmiths, Inc.</td>
<td>Derived</td>
<td>11/15/93</td>
<td>903722W1.11320</td>
<td>CASEWorks/RT Ada i860, Version 1.1</td>
<td>Host: Sun SPARCstation series (under SunOS 4.1, 4.1.2, &amp; 4.1.3) Target: Any MC68020, MC68030, &amp; MC68040-based single-board computer (bare machine, using Unix 3.1)</td>
</tr>
<tr>
<td>NEC Corporation, Environment Systems Dept.</td>
<td>Derived</td>
<td>11/15/93</td>
<td>903722W1.11320</td>
<td>CASEWorks/RT Ada i860, Version 1.1</td>
<td>Host: Sun SPARCstation 2 (under SunOS 4.1.1) Target: CSPI Supercard ii (Intel 80860) with VSB daughterboard (bare machine)</td>
</tr>
<tr>
<td>NEC Corporation</td>
<td>Base</td>
<td>11/15/93</td>
<td>903722W1.11320</td>
<td>CASEWorks/RT Ada i860, Version 1.1</td>
<td>Host: Sun SPARCstation series (under SunOS 4.1, 4.1.2, &amp; 4.1.3) Target: CSPI Supercard 2 with VSB daughterboard, CSPI Supercard 3 with VSB daughterboard, CSPI Supercard 3XL with VSB daughterboard, &amp; CSPI Supercard 4 with VSB daughterboard (bare machines, using Unix/pSOS+ 3.1)</td>
</tr>
<tr>
<td>NEC Corporation</td>
<td>Derived</td>
<td>11/15/93</td>
<td>903722W1.11320</td>
<td>CASEWorks/RT Ada i860, Version 1.1</td>
<td>Host: Sun SPARCstation series (under SunOS 4.1, 4.1.2, &amp; 4.1.3) Target: CSPI Supercard 2 with VSB daughterboard, CSPI Supercard 3 with VSB daughterboard, CSPI Supercard 3XL with VSB daughterboard, &amp; CSPI Supercard 4 with VSB daughterboard (bare machines, using Unix/pSOS+ 3.1)</td>
</tr>
<tr>
<td>NEC Corporation</td>
<td>Base</td>
<td>11/15/93</td>
<td>903722W1.11320</td>
<td>CASEWorks/RT Ada i860, Version 1.1</td>
<td>Host: Sun SPARCstation series (under SunOS 4.1, 4.1.2, &amp; 4.1.3) Target: CSPI Supercard 2 with VSB daughterboard, CSPI Supercard 3 with VSB daughterboard, CSPI Supercard 3XL with VSB daughterboard, &amp; CSPI Supercard 4 with VSB daughterboard (bare machines, using Unix/pSOS+ 3.1)</td>
</tr>
</tbody>
</table>

**Compiler Vendor:** NEC Corporation, Environment Systems Dept.  
**Address:** Basic Software Laboratory, C&C Common Software Development Laboratory, Shibaura 2-11-5, Minato-ku, Tokyo 108  
**City:** Tokyo  
**State:**  
**Country:** JAPAN  
**Contact Name:** Shin-ichi Morimoto  
**Phone:** +81-3-5478-1105  
**E-mail:** morimoto@ecs.mt.nec.co.jp

**Compiler Vendor:** NEC Corporation  
**Compiler Type:** Derived  
**Date of Validation by Registration:** 11/8/93  
**Validation Certificate #:** 91091851.11216  
**Compiler Name:** NEC Ada Compiler System for EWS-U/XV (Release 4.0, Version Release 2.1 (4.6))  
**Host:** NEC EWS4800/220 (under EWS-U/XV (Release 4.0) R2.1)  
**Target:** Same as Host

**Compiler Vendor:** NEC Corporation  
**Compiler Type:** Derived  
**Date of Validation by Registration:** 11/8/93  
**Validation Certificate #:** 91091851.11216  
**Compiler Name:** NEC Ada Compiler System, Version Release 4.1 (4.6.4)  
**Host:** UP4800 Series models 520, 605, 620, 625, 630, & 635 (under UP-U/XV R4.1) EWS4800 Superstation RISC Series (all EWS RISC models, only) (under EWS-U/XV(R4.0) R6.2 & EWS-U/XV(R4.2) R7.1, as supported)  
**Target:** Any Host

**Compiler Vendor:** NEC Corporation  
**Compiler Type:** Base  
**Validation Certificate #:** 91091851.11217  
**Compiler Name:** NEC Ada Compiler System for EWS-U/XV to V70/RX-U/X32, Version 1.0  
**Host:** NEC EWS4800/60 (under EWS-U/XV R8.1)  
**Target:** NEC MV4000 (under RX-U/X32 V1.6)

**Compiler Vendor:** NEC Corporation  
**Compiler Type:** Derived  
**Date of Validation by Registration:** 5/13/92  
**Validation Certificate #:** 91091851.11217  
**Compiler Name:** NEC Ada Compiler System for EWS-U/XV (Release 4.0) to V70/RX-U/X32, Version 1.0  
**Host:** All RISC (MIPS R3000- & R4000-based) models of the EWS4800 series (under EWS-U/XV (4.0) R2.1)  
**Target:** NEC MV4000 (under RX-U/X32 V1.6)

**Compiler Vendor:** NEC Corporation  
**Compiler Type:** Derived  
**Date of Validation by Registration:** 8/25/93  
**Validation Certificate #:** 91091851.11217  
**Compiler Name:** NEC Ada Compiler System for EWS-U/XV (Release 4.0) to V70/RX-U/X32 Version Release 4.1 (4.6.4)  
**Host:** EWS4800 Superstation RISC Series (under EWS-U/XV(R4.0) R6.2)  
**Target:** NEC MV4000 (under RX-U/X32 V1.63)

**Compiler Vendor:** North China Institute of Computing Technology  
**Address:** Building 13 Wanningyuan, Fuchengmenwai  
**City:** Beijing 100037  
**State:**  
**Country:** CHINA  
**Contact Name:** Li Xin  
**Phone:** (01) 8342706, 8313399-3406  
**E-mail:** (No e-mail address given)

**Compiler Vendor:** North China Institute of Computing Technology  
**Compiler Type:** Base  
**Date of Validation by Registration:** 12/31/94  
**Validation Certificate #:** 91091261.11166  
**Compiler Name:** NEC Ada Compilation System, Version 2.0  
**Host:** IBM 937x, 43xx, 308x, 309x, & ES/9000 processors (under VM/ESA 1.1, 1.1.1, & 2.1; VM/XA 2.1; VM/SP HPO 6.0)  
**Target:** Same as Host

**Compiler Vendor:** OC Systems  
**Address:** 9000 Lee Highway, Suite 270  
**City:** Fairfax  
**State:** VA  
**Zip Code:** 22030  
**Country:**  
**Contact Name:** Oliver E. Cole  
**Phone:** (703) 359-8160  
**E-mail:** info@ocsystems.com

**Compiler Vendor:** OC Systems  
**Compiler Type:** Derived  
**Date of Validation by Registration:** 12/31/94  
**Validation Certificate #:** 91091261.11166  
**Compiler Name:** NEC Legacy Ada/370 VM, Version 2.0  
**Host:** IBM 937x, 43xx, 308x, 309x, & ES/9000 processors (under VM/ESA 1.1, 1.1.1, & 2.1; VM/XA 2.1; VM/SP HPO 6.0)  
**Target:** Same as Host

**Compiler Vendor:** Proprietary Software Systems  
**Address:** 429 Santa Monica Boulevard, Suite 430  
**City:** Santa Monica  
**State:** CA  
**Zip Code:** 90401  
**Country:**  
**Contact Name:** Richard Gilinsky  
**Phone:** (310) 394-5233  
**E-mail:** CompuServe: 73374.2017

**Compiler Vendor:** Proprietary Software Systems, Inc.  
**Compiler Type:** Base  
**Date of Validation by Registration:** 6/1/93  
**Validation Certificate #:** 6204231.11250  
**Compiler Name:** PSS VAX/43432S Compiler, Version X8-01.00  
**Host:** VAX 8350 (under VMS Version 5.4)  
**Target:** PSS Zoran ZR3432S Digital Signal Processor/AdaRAID Version X8-01.000 (bare machine simulation, executing on the Host)
Ada PROCESSORS, Continued

* Compiler Vendor: R.R. Software, Inc.
  Compiler Type: Base
  Validation Certificate #: 901120W1.11086
  Compiler Name: Janus/Ada 2.2.0 UNIX
  Host: IBM PS/2 Model 80 (under MS DOS 3.3)
  Target: IBM PS/2 Model 80 (under MS DOS 3.3)

* Compiler Vendor: R.R. Software, Inc.
  Compiler Type: Derived
  Date of Validation by Registration: 1/26/91
  Validation Certificate #: 901120W1.11086 (BASE)
  Compiler Name: Janus/Ada 2.2.0 UNIX
  Target: Same as Host

* Compiler Vendor: R.R. Software, Inc.
  Compiler Type: Derived
  Date of Validation by Registration: 6/9/92
  Validation Certificate #: 901120W1.11086 (BASE)
  Compiler Name: Janus/Ada 2.2.1 DOS
  Host: Any Computer System Comprising: cpu: any that executes the Intel 8086/8088 instruction set; fpu: optional; memory: 640 KByte RAM; disk: 20 MByte hard drive (under MS DOS 3.3)
  Target: Same as Host

* Compiler Vendor: R.R. Software, Inc.
  Compiler Type: Derived
  Date of Validation by Registration: 9/10/92
  Validation Certificate #: 901120W1.11086 (BASE)
  Compiler Name: Janus/Ada 2.2.2 DOS
  Host: Any Computer System Comprising: cpu: any that executes the Intel 8086/8088 instruction set; fpu: optional; memory: 640 KByte RAM; disk: 20 MByte hard drive (under MS DOS 3.3)
  Target: Any Host

* Compiler Vendor: R.R. Software, Inc.
  Compiler Type: Derived
  Date of Validation by Registration: 9/10/92
  Validation Certificate #: 901120W1.11086 (BASE)
  Compiler Name: Janus/Ada 2.2.2 DOS
  Host: Any Computer System Comprising: cpu: any that executes the Intel 80386 instruction set; fpu: optional; memory: 2 MByte RAM; disk: 40 MByte hard drive (under Phar Lap / MS DOS 3.3)
  Target: Any Host (under MS-DOS 3.3)

* Compiler Vendor: R.R. Software, Inc.
  Compiler Type: Base
  Validation Certificate #: 901120W1.11089
  Compiler Name: Janus/Ada 2.2.0 UNIX
  Host: Northgate 386/25 (under SCO Unix 3.2)
  Target: Same as Host

* Compiler Vendor: R.R. Software, Inc.
  Compiler Type: Derived
  Date of Validation by Registration: 8/31/94
  Validation Certificate #: 901120W1.11086 (BASE)
  Compiler Name: VADSoros Sun-4 => GA040-1, Version 3.0
  Host: Sun Microsystems Sun-4, SPARCstation, & SPARCserver computer family (under SunOS 4.1.3)
  Target: General Atronics GA040-1 (MC68040-based single-board computer) (bare machine)

* Compiler Vendor: R.R. Software, Inc.
  Compiler Type: Derived
  Date of Validation by Registration: 8/31/94
  Validation Certificate #: 901120W1.11086 (BASE)
  Compiler Name: VADSoros Sun-4 => GA040-1, Version 3.0
  Host: Sun Microsystems Sun-4, SPARCstation, & SPARCserver computer family (under SunOS 4.1.3)
  Target: General Atronics GA040-1 (MC68040-based single-board computer) (bare machine)
Ada PROCESSORS, Continued

* Compiler Vendor: Rational Software Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 8/1/94
  Validation Certificate #: 010517VW.11157 (BASE)
  Compiler Name: VADS 386/486, VAda-110-3737, Version 6.2
  Host: Any computer that executes the Intel 80486 instruction set
        (under Interactive UNIX System V/386 Release 3.2)
  Target: Same as Host

* Compiler Vendor: Rational Software Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 5/26/95
  Validation Certificate #: 011002VW.11221 (BASE)
  Compiler Name: Meridian Ada, Version 4.1
  Host: Sun Microsystems Sun-4, SPARCcenter, SPARCstation,
        SPARCserver, SPARCcluster, & SPARCclassic
        series of computers (under SunOS, Versions 4.1 & 4.1.1, and
        Solaris 2.x, as supported); SPARCengine 1E (under SunOS, Version 4.1.e)
  Target: Mercury MCV6 & MCV9 (under MC/OS, Version 2.3)

* Compiler Vendor: Rational Software Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 3/28/95
  Validation Certificate #: 020513WV.11256 (BASE)
  Compiler Name: VADSworks Sun/SunOS =>68K, VAda-115-40870,
        Version 3.1
  Host: Sun Microsystems SPARCclassic, SPARCcluster, SPARCstation,
        SPARCserver, and SPARCsystem computer families (under SunOS 4.1.3)
  Target: Any single-board computer system comprising:
          cpu-Motorola MC68020, MC68030, or MC68040;
          fpu- on chip, or optional MC68881 or MC68882, as appropriate;
          OS- VxWorks 5.1.1

* Compiler Vendor: Rational Software Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 3/31/95
  Validation Certificate #: 020513VW.11256 (BASE)
  Compiler Name: VADSworks Sun/Solaris =68K, VAda-115-42870,
        Version 3.1
  Host: Sun Microsystems SPARCclassic, SPARCcluster, SPARCcenter,
        SPARCstation, SPARCserver, and SPARCsystem computer families (under SunOS 5.3 (Solaris 2.3))
  Target: Any single-board computer system comprising:
          cpu-Motorola MC68020, MC68030, or MC68040;
          fpu- on chip, or optional MC68881 or MC68882, as appropriate;
          OS- VxWorks 5.1.1

* Compiler Vendor: Rational Software Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 4/12/95
  Validation Certificate #: 021004VW.11282 (BASE)
  Compiler Name: VADS System V/386/486, VAda-110-3232, Ver 6.2.1
  Host: AT&T System 3000 series of computers, including models
        3340, 3345, 3350, 3355, 3406, 3410, 3416, 3416-EL, 3430,
        3445, 3447, 3450, 3455, 3455-XP, 3470, 3475, 3475-XP, 3520,
        3525, 3525-XP, 3550, 3555, 3555-XP, 3570, 3575, 3575-XP,
        & 3600 (under NCR UNIX SVR4 MP-RS, Release 2)
  Target: Any Host

* Compiler Vendor: Rational Software Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 11/18/94
  Validation Certificate #: 021004VW.11299 (BASE)
  Compiler Name: Sun Microsystems SPARCompiler Ada, Version 2.1
  Host: Sun Microsystems SPARCclassic, SPARCcluster, SPARCstation, SPARCserver, and
        SPARCsystem computer families (under Solaris 2.4)
  Target: Any Host

* Compiler Vendor: Rational Software Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 11/18/94
  Validation Certificate #: 021004VW.11299 (BASE)
  Compiler Name: Sun Microsystems IMPact Ada, Version 1.0
  Host: Sun Microsystems SPARCclassic, SPARCcluster, SPARCstation, SPARCserver, and
        SPARCsystem computer families (under Solaris 2.4)
  Target: Any Host

* Compiler Vendor: Rational Software Corporation
  Compiler Type: Base
  Validation Certificate #: 940608WV.11356
  Compiler Name: Apex, Version 1.4.1
  Host: SPARCstation 10/51 (under SunOS 4.1.3)
  Target: Same as Host

* Compiler Vendor: Rational Software Corporation
  Compiler Type: Base
  Validation Certificate #: 940608WV.11357
  Compiler Name: Apex, Version 1.4.1
  Host: SPARCstation 10/51 (under Solaris 2.3)
  Target: Same as Host

* Compiler Vendor: Rational Software Corporation
  Compiler Type: Base
  Validation Certificate #: 940630WV.11359
  Compiler Name: VADScross for DEC Alpha AXP OSF/1, Product
                #2100-01439, Version 6.2
  Host: DEC 4000 Model 610 AXP (under OSF/1, Version 2.0)
  Target: Same as Host

* Compiler Vendor: Rational Software Corporation
  Compiler Type: Base
  Validation Certificate #: 940630WV.11360
  Compiler Name: VADScross for DEC Alpha AXP OSF/1, Product
                #2100-01439, Version 6.2
  Host: DEC 3000 Model 500 AXP (under OSF/1, Version 1.3)
  Target: Same as Host

* Compiler Vendor: Rational Software Corporation
  Compiler Type: Base
  Validation Certificate #: 940630WV.11361
  Compiler Name: VADScross for DEC Alpha AXP OSF/1, Product
                #2100-01439, Version 6.2
  Host: DEC 3000 Model 500 AXP (under OSF/1, Version 1.3)
  Target: Same as Host

* Compiler Vendor: Rational Software Corporation
  Compiler Type: Base
  Validation Certificate #: 940630WV.11362
  Compiler Name: VADScross IBM RISC System/6000 AIX 3.2.3 =>
                MIPS R4000, Version 8.2
  Host: Silicon Graphics Challenge (4IP19 @ 100 MHz) (under IRIX 5.2)
  Target: Same as Host

* Compiler Vendor: Rational Software Corporation
  Compiler Type: Base
  Validation Certificate #: 940630WV.11362
  Compiler Name: VADScross IBM RISC System/6000 AIX 3.2.3 =>
                MIPS R4000, Version 8.2
  Host: Silicon Graphics Challenge (4IP19 @ 100 MHz) (under IRIX 5.2)
  Target: SGI Indigo X4000 (MIPS R4000), operating as a bare
           machine
Ada PROCESSORS, Continued

* Compiler Vendor: Rational Software Corporation
  Compiler Type: Base
  Validation Certificate #: 940630W1.11363
  Compiler Name: VADS PowerPC => PowerPC, Product #2100-01445, Version 6.2
  Host: IBM RS/6000 Model 250 (under AIX 3.2.5)
  Target: Motorola MM2001 (PowerPC 501) (bare machine)

* Compiler Vendor: Rational Software Corporation
  Compiler Type: Base
  Validation Certificate #: 940630W1.11364
  Compiler Name: VADS IBM RS/6000 => PowerPC, Product #2100-01445, Version 6.2
  Host: IBM RS/6000 Model 530 (under AIX 3.2.5)
  Target: Motorola MM2001 (PowerPC 501) (bare machine)

* Compiler Vendor: Rational Software Corporation
  Compiler Type: Base
  Validation Certificate #: 940630W1.11365
  Compiler Name: VADS PowerPC SELF, Product #2100-01443, Ver 6.2
  Host: IBM RS/6000 Model 250 (under AIX 3.2.5)
  Target: Same as Host

* Compiler Vendor: Rational Software Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 11/18/94
  Validation Certificate #: 940630W1.11365 (BASE)
  Compiler Name: VADS PowerPC SELF, Product #2100-01443, Ver 6.2
  Host: IBM RS/6000 Model 41T (under AIX 3.2.5)
  Target: Same as Host

* Compiler Vendor: Rational Software Corporation
  Compiler Type: Base
  Validation Certificate #: 940630W1.11366
  Compiler Name: DADScross Sun4 => MIPS R3000, Product #2100-01451, Version 6.2
  Host: Sun SPARCstation 10 (under SunOS 4.1.3)
  Target: Hewlett Packard HP/MIPS 3300 (MIPS R3000) (bare machine)

* Compiler Vendor: Rational Software Corporation
  Compiler Type: Base
  Validation Certificate #: 940630W1.11367
  Compiler Name: VADS PowerPC => Sun Solaris 2.3 => MIPS R4000, Version 6.2
  Host: Sun SPARCstation 10/512 (under Solaris 2.3)
  Target: Sun SPARCstation 10 (under SunOS 4.1.3)
  Target: Intel Paragon (under OSF/1, Release 1.1.4)

* Compiler Vendor: Rational Software Corporation
  Compiler Type: Base
  Validation Certificate #: 940630W1.11368
  Compiler Name: DADScross Sun4 => Paragon, Product #2100-01452, Version 6.2
  Host: Sun SPARCstation 10 (under SunOS 4.1.3)
  Target: Intel Paragon (under OSF/1, Release 1.1.4)

* Compiler Vendor: Rational Software Corporation
  Compiler Type: Base
  Validation Certificate #: 940630W1.11369
  Compiler Name: VADS Sun4 => PowerPC, Product #2100-01444, Version 6.2
  Host: Sun SPARCstation 2000 (under Solaris 2.3)
  Target: Motorola MM2001 (PowerPC 601) (bare machine)

* Compiler Vendor: Rational Software Corporation
  Compiler Type: Base
  Validation Certificate #: 940630W1.11370
  Compiler Name: VADS Sun4 => PowerPC Simulator, Product #2100-01455, Version 6.2
  Host: Sun SPARCstation 2 (under SunOS 4.1.2)
  Target: VADS PowerPC Instruction Set Simulator, executing on the Host (bare machine simulation)

* Compiler Vendor: Rational Software Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 2/23/95
  Validation Certificate #: 940630W1.11370 (BASE)
  Compiler Name: VADS Sun4 => PowerPC Simulator, Product #2100-01466, Version 6.2
  Host: Sun SPARCstation 2 (under SunOS 4.1.2)
  Target: VADS PowerPC 603 Instruction Set Simulator, executing on the Host (bare machine simulation)

* Compiler Vendor: Rational Software Corporation
  Compiler Type: Base
  Validation Certificate #: 940630W1.11371
  Host: Motorola Series 500 Model 911 (under UNIX System V, Release 4)
  Target: Same as Host

* Compiler Vendor: Rational Software Corporation
  Compiler Type: Base
  Validation Certificate #: 940630W1.11372
  Host: DG AVION G70592-2 (68110) (under UNIX System V, Rel 4)
  Target: Same as Host

* Compiler Vendor: Rational Software Corporation
  Compiler Type: Base
  Validation Certificate #: 940630W1.11373
  Compiler Name: VADS AT&T 3B2/600GR UNIX System V Release 4, Product #2100-01449, Version 6.2
  Host: AT&T 3B2/600GR UNIX System V, Release 4, Product #2100-01444, Version 6.2
  Target: AT&T 3B2/600GR (under System V, Release 4.0)

Compiler Vendor: Rockwell International Corporation
Address: Engineering Process and Support
MS: 124-323
400 Collins Road NE
City: Cedar Rapids
State: IA
Zip Code: 52403
Country: United States
Contact Name: Sally Olsen
Phone: (319) 395-1729
E-mail: sro@hobbes.csia.rockwell.com

* Compiler Vendor: Rockwell International Corporation
  Compiler Type: Base
  Validation Certificate #: 910306W1.11120
  Compiler Name: DDC-Based Ada/CAPS Compiler, Version 6.0
  Host: VAX 8650 (under VMS, Version 5.3-1)
  Target: CAPS/AAMP1 (bare machine)

* Compiler Vendor: Rockwell International Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 4/18/91
  Validation Certificate #: 910306W1.11120 (BASE)
  Compiler Name: DDC-Based Ada/CAPS Compiler, Version 6.1
  Host: DEC VAX-11, VAXserver, VAXstation, MicroVAX, VAX 8000, VAX 8000 & VAX 9000 Series of computers (under VMS Versions 5.3-1 & 5.4)
  Target: CAPS/AAMP1 (bare machine)

* Compiler Vendor: Rockwell International Corporation
  Compiler Type: Base
  Validation Certificate #: 910306W1.11130
  Compiler Name: DDC-Based Ada/CAPS Compiler, Version 6.0
  Host: VAXstation 3100 Model 30 (under VM 5.4)
  Target: CAPS/AAMP2 (bare machine)
Ada PROCESSORS, Continued

* Compiler Vendor: Rockwell International Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 4/18/91
  Validation Certificate #: 910306WI.11130 (BASE)
  Compiler Name: DDC-Based Ada/CAPS Compiler, Version 8.1
  Host: DEC VAX-11, VAXserver, VAXstation, MicroVAX, VAX 6000, VAX 8000 & VAX 9000 Series of computers (under VMS Versions 5.3-1 & 5.4)
  Target: CAPS/AAMP2 (bare machine)

* Compiler Vendor: Rockwell International Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 3/03/93
  Validation Certificate #: 910306WI.11130 (BASE)
  Compiler Name: DDC-Based Ada/CAPS Compiler, Version 8.3
  Host: DEC VAX-11, VAXserver, VAXstation, MicroVAX, VAX 4000, VAX 6000, VAX 8000, VAX 9000, & VAX 10000 series of computers (under VMS Versions 5.5-2)
  Target: CAPS/AAMP2 & CAPS/AAMP3 (bare machines)

* Compiler Vendor: Rockwell International Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 3/28/95
  Validation Certificate #: 910306WI.11130 (BASE)
  Compiler Name: DDC-Based Ada/CAPS Compiler System, Version 7.0
  Host: DEC VAX, MicroVAX, VAXstation, VAXserver series of computers (under VMS Versions 7.2 & 7.3)
  Target: CAPS/AAMP2, CAPS/AAMP3, & CAPS/AAMP5 (bare machines)

Compiler Vendor: SD-Scicon UK Ltd
Address: (SD-Scicon Ada products now EDS-Scicon)
EDS-Scicon, U.S. Software Products Group
8 New England Executive Park
City: Burlington
State: MA
Zip Code: 01803
Country:
Contact Name: Alistair Wilson
Phone: (617) 273-3030, ext. 229
E-mail: (No e-mail address given)

* Compiler Vendor: SD-Scicon UK Ltd
  Compiler Type: Base
  Date of Validation by Registration: 10/31/90
  Validation Certificate #: 901007NI.11042
  Compiler Name: XD Ada MC68020, Version 1.2
  Host: VAX Cluster (comprising VAXserver 3600, MicroVAX 2000 (2) & MicroVAX II machines) (under VMS Version 5.3)
  Target: Motorola MVME133XT board (MC68020) (bare machine)

* Compiler Vendor: SD-Scicon UK Ltd
  Compiler Type: Derived
  Date of Validation by Registration: 1/25/91
  Validation Certificate #: 901007NI.11042 (BASE)
  Compiler Name: XD Ada MC68020, Version 1.2
  Host: VAX Cluster (comprising VAXserver 3600, MicroVAX 2000 (2) & MicroVAX II machines) (under VMS Version 5.3)
  Target: Motorola MVME133-1 board (MC68020) and Motorola MVME147S-1 board (MC68030) (bare machines)

* Compiler Vendor: SD-Scicon UK Ltd
  Compiler Type: Derived
  Date of Validation by Registration: 5/3/91
  Validation Certificate #: 901007NI.11042 (BASE)
  Compiler Name: XD Ada MC68020, Version 1.2A
  Host: VAX Cluster (comprising VAXserver 3600, MicroVAX 2000 (2) & MicroVAX II machines) (under VMS Version 5.4)
  Target: Motorola MVME133XT board (MC68020) (bare machine)

* Compiler Vendor: SD-Scicon UK Ltd
  Compiler Type: Derived
  Date of Validation by Registration: 7/14/91
  Validation Certificate #: 901007NI.11042 (BASE)
  Compiler Name: XD Ada MC68020 MVME135 & MVME147, Ver 1.2A
  Host: VAX Cluster (comprising VAXserver 3600, MicroVAX 2000 (2) & MicroVAX II machines) (under VMS Version 5.4)
  Target: Motorola MVME135-1 (MC68020) & MVME147S-1 (MC68030) boards (bare machines)

* Compiler Vendor: SD-Scicon UK Ltd
  Compiler Type: Derived
  Date of Validation by Registration: 3/30/92
  Validation Certificate #: 901007NI.11042 (BASE)
  Compiler Name: XD Ada CPU32/MC68332, Version 1.2
  Host: VAX Cluster (comprising VAXserver 3600, MicroVAX 2000 (2) & MicroVAX II machines) (under VMS Version 5.4)
  Target: Motorola M68340EVS Evaluation System CPU32 (bare machine)

* Compiler Vendor: SD-Scicon UK Ltd
  Compiler Type: Derived
  Date of Validation by Registration: 3/30/92
  Validation Certificate #: 901007NI.11042 (BASE)
  Compiler Name: XD Ada CPU32/MC68332, Version 1.2
  Host: VAX Cluster (comprising VAXserver 3600, MicroVAX 2000 (2) & MicroVAX II machines) (under VMS Version 5.4)
  Target: Motorola M68340EVS Evaluation System CPU32 (bare machine)

* Compiler Vendor: SD-Scicon UK Ltd
  Compiler Type: Base
  Validation Certificate #: 901214N1.11080
  Compiler Name: XD Ada M68000, Version 1.2
  Host: Local Area VAX Cluster (comprising VAXserver 3600, MicroVAX 2000 (2) & MicroVAX II machines) (under VMS Version 5.3)
  Target: Fairchild P4540 on a SBC-50 board (MIL-STD-1750A) (bare machine)

* Compiler Vendor: SD-Scicon UK Ltd
  Compiler Type: Base
  Validation Certificate #: 901314N1.11134
  Compiler Name: XD Ada M68000, Version 1.2
  Host: Local Area VAX Cluster (comprising VAXserver 3600, MicroVAX 2000 (2) & MicroVAX II machines) (under VMS Version 5.4)
  Target: Motorola MC68000 to MVME117-3FP board (bare machine)

* Compiler Vendor: SD-Scicon UK Ltd
  Compiler Type: Derived
  Date of Validation by Registration: 7/3/91
  Validation Certificate #: 901314N1.11134 (BASE)
  Compiler Name: XD Ada M68000/EFA, Version 1.2
  Host: Local Area VAX Cluster (comprising VAXserver 3600, MicroVAX 2000 (2) & MicroVAX II machines) (under VMS Version 5.4)
  Target: Motorola MC68000 on an MVME117-3FP board (bare machine)
Ada PROCESSORS, Continued

* Compiler Vendor: SD-Scicon UK Ltd
  Compiler Type: Base
  Validation Certificate #: 901011N1.11199
  Compiler Name: XD Ada MC68020/ARTX, Version T1.2
  Host: Local Area VAX Cluster (comprising VAXserver 3800, MicroVAX 2000 (2) & MicroVAX II machines) (under VMS 5.4)
  Target: Motorola MVME1475-1 (MC68030) (bare machine)

* Compiler Vendor: SD-Scicon UK Ltd
  Compiler Type: Base
  Validation Certificate #: 911128N1.11230
  Compiler Name: XD Ada MC68040/FORCE CPU-40, Version 1.2
  Host: Local Area VAX Cluster (comprising VAXserver 3800, MicroVAX 2000 (2), & MicroVAX II machines) (under VMS 5.5)
  Target: FORCE CPU-40 (MC68040) (bare machine)

* Compiler Vendor: SD-Scicon UK Ltd
  Compiler Type: Derived
  Date of Validation by Registration: 6/1/92
  Validation Certificate #: 911128N1.11230 (BASE)
  Compiler Name: XD Ada MC68040/FORCE CPU-40, Version 1.2
  Host: Local Area VAX Cluster (comprising VAXserver 3800, MicroVAX 2000 (2), & MicroVAX II machines) (under VMS 5.5)
  Target: Motorola MVME167 (MC68040) (bare machine)

Compiler Vendor: Siemens Nixdorf Informationssysteme AG
Address: PSW SW 33
Otto-Hahn-Ring 6
City: W-8000 Muenchen 83
State: GERMANY
Zip Code: 80538
Country: GERMANY
Contact Name: Klaus Engelke
Phone: +49 89 636 82549
E-mail: (No e-mail address given)

* Compiler Vendor: Siemens Nixdorf Informationssysteme AG
  Compiler Type: Base
  Validation Certificate #: 901119H1.11111
  Compiler Name: SIEMENS NIXDORF BS2000 Ada Compiler, Ver 2.1
  Host: SIEMENS NIXDORF 7.590G (under BS2000 V9.5)
  Target: Same as Host

* Compiler Vendor: Siemens Nixdorf Informationssysteme AG
  Compiler Type: Derived
  Date of Validation by Registration: 3/18/91
  Validation Certificate #: 901119H1.11111 (BASE)
  Compiler Name: SIEMENS NIXDORF BS2000 Ada Compiler, Ver 2.1
  Target: Same as Host

* Compiler Vendor: Siemens Nixdorf Informationssysteme AG
  Compiler Type: Base
  Validation Certificate #: 907111W1.11181
  Compiler Name: Ada (SINIX), Version 4.1
  Host: Siemens Nixdorf WX200 (SINIX-ODT) (under SINIX-ODT V1.0)
  Target: Same as Host

* Compiler Vendor: Siemens Nixdorf Informationssysteme AG
  Compiler Type: Derived
  Date of Validation by Registration: 9/27/91
  Validation Certificate #: 907111W1.11181 (BASE)
  Compiler Name: Ada (SINIX), Version 4.1
  Host: Siemens Nixdorf WX200 (SINIX-ODT) (under SINIX-ODT V1.5)
  Target: Same as Host

* Compiler Vendor: Siemens Nixdorf Informationssysteme AG
  Compiler Type: Base
  Validation Certificate #: 92032551.11249
  Compiler Name: Ada (SINIX), Version 4.1
  Host: Siemens Nixdorf MX3001 (under SINIX Version V5.41)
  Target: Same as Host

* Compiler Vendor: Siemens Nixdorf Informationssysteme AG
  Compiler Type: Derived
  Date of Validation by Registration: 7/24/92
  Validation Certificate #: 92032551.11249 (BASE)
  Compiler Name: Ada (SINIX), Version 4.1
  Host: Siemens Nixdorf WX200 & MX5001 (under SINIX Version V5.41)
  Target: Each Host, self targeted

* Compiler Vendor: Siemens Nixdorf Informationssysteme AG
  Compiler Type: Base
  Validation Certificate #: 92092211.11276
  Compiler Name: Ada (SINIX), Version 4.1
  Host: Siemens Nixdorf RM600 (under SINIX Version V5.41)
  Target: Same as Host

* Compiler Vendor: Siemens Nixdorf Informationssysteme AG
  Compiler Type: Derived
  Date of Validation by Registration: 2/10/93
  Validation Certificate #: 92092211.11276 (BASE)
  Compiler Name: Ada (SINIX), Version 4.1
  Host: Siemens Nixdorf RM400 (under SINIX Version V5.41)
  Target: Same as Host

Compiler Vendor: Silicon Graphics, Inc.
Address: 2011 North Shoreline Boulevard
City: Mountain View
State: CA
Zip Code: 94043
Country: US
Contact Name: Dave McAllister
Phone: (415) 390-3238
E-mail: dave@sgi.com

* Compiler Vendor: Silicon Graphics, Inc.
  Compiler Type: Base
  Validation Certificate #: 900703W1.11014
  Compiler Name: 4D ADA, Version 3.0
  Host: IRIX-4D/380 (under IRIX Release 4D-3.3)
  Target: Same as Host

* Compiler Vendor: Silicon Graphics, Inc.
  Compiler Type: Base
  Validation Certificate #: 900703W1.11015
  Compiler Name: 4D ADA, Version 3.0
  Host: IRIX-4D/220S (under IRIX Release 4D-3.3)
  Target: Same as Host

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Ada PROCESSORS, Continued

* Compiler Vendor: Silicon Graphics, Inc.
  Compiler Type: Base
  Validation Certificate #: 900703W1.11016
  Compiler Name: 4D ADA, Version 3.0
  Host: Iris-4D/25 (under IRIX Release 4D-3.3)
  Target: Same as Host

* Compiler Vendor: Silicon Graphics, Inc.
  Compiler Type: Base
  Validation Certificate #: 910020W1.11203
  Compiler Name: VADS SGI-Irix, SC4-ADA-4.0, Version 6.1
  Host: SGI Indigo (under Irix V4.0)
  Target: Same as Host

* Compiler Vendor: Silicon Graphics, Inc.
  Compiler Type: Derived
  Date of Validation by Registration: 3/30/92
  Validation Certificate #: 910020W1.11203 (BASE)
  Compiler Name: VADS SGI-Irix, SC4-ADA-4.0, Version 6.1
  Host: SGI Indigo, Personal IRIX 4D, IRIX 4D series of computers
        (under Irix V4.0)
  Target: Any Host

* Compiler Vendor: Silicon Graphics, Inc.
  Compiler Type: Base
  Validation Certificate #: 910020W1.11204
  Compiler Name: VADS SGI-Irix, SC4-ADA-4.0, Version 6.1
  Host: SGI 4D/440 (under Irix V3.3)
  Target: Same as Host

Compiler Vendor: SKY Computers, Inc.
Address: A Subsidiary of Analogic
27 Industrial Avenue
City: Chelmsford
State: MA
Zip Code: 01824
Country: Contact Name: Richard Jaenicke
Phone: (800) 488-3400
E-mail: jaenicke@sky.com

* Compiler Vendor: SKY Computers, Inc.
  Compiler Type: Base
  Validation Certificate #: 910711W1.11183
  Compiler Name: Meridian Ada, Version 4.1
  Host: SGI Personal Iris W-4D25 (under Irix System V 3.3)
  Target: SKYbolt 8116-V (under SKYbolt kernel version 2.33)

* Compiler Vendor: SKY Computers, Inc.
  Compiler Type: Base
  Validation Certificate #: 910711W1.11185
  Compiler Name: Meridian Ada, Version 4.1
  Host: SGI Personal Iris W-4D25 (under Irix System V 3.3)
  Target: SKYstation 8117-P (under SKYstation kernel version 2.33)

* Compiler Vendor: SKY Computers, Inc.
  Compiler Type: Base
  Validation Certificate #: 910711W1.11189
  Compiler Name: Meridian Ada, Version 4.1
  Host: SGI Personal Iris W-4D25 (under Irix System V 3.3)
  Target: Same as Host

* Compiler Vendor: SKY Computers, Inc.
  Compiler Type: Base
  Validation Certificate #: 940803W1.11374
  Compiler Name: SKYvec ADA, Release 3.6
  Host: SPARCstation 10 Model 402 (under SunOS 4.1.3)
  Target: SKYbolt Model 8146-V (under SKYmpxrt, Release 3.6)

Compiler Vendor: Software Leverage, Inc.
Address: 411 Waverly Oaks Road
City: Waltham
State: MA
Zip Code: 02154-8414
Country: Contact Name: Mike Gilbert
Phone: (617) 994-3399
E-mail: sales@sli.com

* Compiler Vendor: Software Leverage, Inc.
  Compiler Type: Base
  Validation Certificate #: 940411W1.11355
  Compiler Name: Parallel-Leveraged Ada, Version 6.1.0.2
  Host: SGI Indigo, Personal IRIX 4D, IRIX 4D series of computers
        (under Irix V4.0)
  Target: Same as Host

* Compiler Vendor: Software Leverage, Inc.
  Compiler Type: Derived
  Date of Validation by Registration: 4/26/94
  Validation Certificate #: 940411W1.11355 (BASE)
  Compiler Name: Parallel-Leveraged Ada, Version 6.1.0.2
  Host: Unisys U6000/7x & U6000/8x series, and Unisys Commercial
        Secure U6000/7x & U6000/8x series, all models (under
        DYNIX/pix 1.2)
  Target: Any Host

Compiler Vendor: Stratus Computer, Inc.
Address: 55 Fairbanks Boulevard
City: Marlboro
State: MA
Zip Code: 01752-1298
Country: Contact Name: Lisa Ludwig
Phone: (508) 480-2695
E-mail: lisa_ludwig@vos.stratus.com

* Compiler Vendor: Stratus Computer, Inc.
  Compiler Type: Base
  Validation Certificate #: 921015W1.11294
  Compiler Name: Status Ada, Version 6.1
  Host: Status XA/R20 (under FTX, 2.0.1)
  Target: Same as Host

* Compiler Vendor: Stratus Computer, Inc.
  Compiler Type: Derived
  Date of Validation by Registration: 9/14/94
  Validation Certificate #: 921015W1.11294 (BASE)
  Compiler Name: Status Ada, Version 6.1.0.5
  Host: Status XA/R series of computers (under FTX 2.3)
  Target: Any Host

Compiler Vendor: Sun Microsystems, Inc.
Address: Sun Pro, Inc.
2550 Garcia Avenue
City: Mountain View
State: CA
Zip Code: 94043-1100
Country: Contact Name: Carole Amos
Phone: (415) 665-9424, (415) 968-6306
E-mail: carole.amos@eng.sun.com

* Compiler Vendor: Sun Microsystems, Inc.
  Compiler Type: Derived
  Date of Validation by Registration: 12/31/91
  Validation Certificate #: 900510W1.11006 (BASE)
  Compiler Name: Sun Microsystems Sun Ada, SunOS, ADE-1.0-4-4-21,
        Version 1.0
  Host: Sun Microsystems Sun-4, SPARCserver, & SPARCstation
        computer families; SPARCserver 600MP Series, & 400MP-64
        (under SunOS Version 4.2 releases 4.1 & 4.1.2, as supported)
  Target: Any Host
Ada PROCESSORS, Continued

* Compiler Vendor: Sun Microsystems, Inc.
  Compiler Type: Derived
  Date of Validation by Registration: 12/31/91
  Validation Certificate #: 900510W111086 (BASE)
  Compiler Name: Sun Microsystems Sun Ada, SunOS, ADE-1.1-4-4-21,
    Version 1.1
  Host: Sun Microsystems Sun-4, SPARCserver, SPARClstation, &
    SPARCengine computer families; SPARCserver600MP Series;
    & 4600MP-S4 (under SunOS Version 4.2 release 4.1.2)
  Target: Any Host

* Compiler Vendor: Sun Microsystems, Inc.
  Compiler Type: Derived
  Date of Validation by Registration: 8/10/92
  Validation Certificate #: 900510W111086 (BASE)
  Compiler Name: Sun Microsystems SPARC Compiler Ada, Version 2.1
  Host: Sun-4, SPARCserver, & SPARClstation computer families
    (under Solaris 2.0, 2.1, 2.2, & 2.3)
  Target: Any Host

* Compiler Vendor: Sun Microsystems, Inc.
  Compiler Type: Derived
  Date of Validation by Registration: 1/12/94
  Validation Certificate #: 921004W111289 (BASE)
  Compiler Name: Sun Microsystems SPARCworks Impact Ada, Ver 1.0
  Host: Sun-4, SPARCserver, & SPARClstation computer families
    (under Solaris 2.0, 2.1, 2.2, & 2.3)
  Target: Any Host

Compiler Vendor: Tartan, Inc.
Address: 300 Oxford Drive
City: Pittsburgh
State: PA
Zip Code: 15146
Contact Name: Wayne Lieberman
Phone: (412) 858-3600
E-mail: lieberman@tartan.com

* Compiler Vendor: Tartan, Inc.
  Compiler Type: Base
  Validation Certificate #: 90121011.11121
  Compiler Name: Tartan Ada VMS/C30, Version 4.0
  Host: VAXstation 3100 (under VMS 5.2)
  Target: Texas Instruments TMS320C30 Application Board (bare machine)

* Compiler Vendor: Tartan, Inc.
  Compiler Type: Derived
  Date of Validation by Registration: 7/2/92
  Validation Certificate #: 90121011.11121 (BASE)
  Compiler Name: Tartan Ada VMS/C30, Version 4.1.1
  Host: VAXstation 3100 (under VMS 5.2)
  Target: Texas Instruments TMS320C30 Application Board, NAVY
    SEM-D Key Code ADSP (bare machines)

* Compiler Vendor: Tartan, Inc.
  Compiler Type: Derived
  Date of Validation by Registration: 8/28/93
  Validation Certificate #: 90121011.11121 (BASE)
  Compiler Name: Tartan Ada VMS/C3X, Version 4.3
  Host: VAXstation 3100 (under VMS 5.5)
  Target: Texas Instruments TMS320C30 Application Board, & Atlanta
    Signal Processors EHF TMS320C31 board (bare machines)

* Compiler Vendor: Tartan, Inc.
  Compiler Type: Base
  Validation Certificate #: 90121011.11122
  Compiler Name: Tartan Ada Sun/960MC, Version 4.0
  Host: Sun 3/60 (under SunOS Version 4.0.3)
  Target: Intel ICE960/25 on an Intel EXV80960MC board (bare machine)

* Compiler Vendor: Tartan, Inc.
  Compiler Type: Derived
  Date of Validation by Registration: 9/5/91
  Validation Certificate #: 90121111.11118
  Compiler Name: Tartan Ada Sun/Sun, Version 4.1
  Host: Sun 3/60 (under SunOS Version 4.0.3)
  Target: Same as Host

* Compiler Vendor: Tartan, Inc.
  Compiler Type: Derived
  Date of Validation by Registration: 12/1/91
  Validation Certificate #: 90121011.11120
  Compiler Name: Tartan Ada Sun/Sun, Version 4.2
  Host: Sun 3/60 (under SunOS Version 4.0.3)
  Target: Same as Host

* Compiler Vendor: Tartan, Inc.
  Compiler Type: Base
  Validation Certificate #: 90121211.11120
  Compiler Name: Tartan Ada VMS/960MC, Version 4.0
  Host: VAXstation 3100 (under VMS 5.2)
  Target: Intel ICE960/25 on an Intel EXV80960MC board (bare machine)

* Compiler Vendor: Tartan, Inc.
  Compiler Type: Derived
  Date of Validation by Registration: 9/5/91
  Validation Certificate #: 90121211.11120 (BASE)
  Compiler Name: Tartan Ada VMS/960MC, Version 4.1
  Host: VAXstation 3100 (under VMS 5.2)
  Target: Intel EXV80960MC board, & Intel ICE960/25 on an Intel
    EXV80960MC board (bare machines)

* Compiler Vendor: Tartan, Inc.
  Compiler Type: Derived
  Date of Validation by Registration: 8/30/92
  Validation Certificate #: 90121211.11120 (BASE)
  Compiler Name: Tartan Ada VMS/960MC, Version 4.2.1
  Host: VAXstation 3100 (under VMS 5.2)
  Target: Intel ICE960/25 on an Intel EXV80960MC board (bare machine)
Ada PROCESSORS, Continued

* Compiler Vendor: Tartan, Inc.
  Compiler Type: Derived
  Date of Validation by Registration: 7/24/92
  Validation Certificate #: 9012121.11120 (BASE)
  Compiler Name: Tartan Ada VMS/6800MC, Version 4.2.1
  Host: VAXstation 3100 (under VMS 5.2)
  Target: Intel EXV80960MC board (bare machine)

* Compiler Vendor: Tartan, Inc.
  Compiler Type: Derived
  Date of Validation by Registration: 1/28/83
  Validation Certificate #: 9012121.11120 (BASE)
  Compiler Name: Tartan Ada VMS/600MC, Version 4.2.2
  Host: VAXstation 3100 (under VMS 5.2)
  Target: Intel EXV80960MC board (bare machine)

* Compiler Vendor: Tartan, Inc.
  Compiler Type: Derived
  Date of Validation by Registration: 8/26/83
  Validation Certificate #: 9012121.11120 (BASE)
  Compiler Name: Tartan Ada VMS/600MC/GVMT, Version 4.3
  Host: VAXstation 3100 (under VMS 5.5)
  Target: Cyclone CVME802 board, & Intel EXV80960MC board (bare machines)

* Compiler Vendor: Tartan, Inc.
  Compiler Type: Base
  Validation Certificate #: 9012121.11123
  Compiler Name: Tartan Ada Sun/C30, Version 4.0
  Host: Sun 3/50 (under SunOS Version 4.0.3)
  Target: Texas Instruments TMS320C30 Application Board (bare machine)

* Compiler Vendor: Tartan, Inc.
  Compiler Type: Derived
  Date of Validation by Registration: 2/12/92
  Validation Certificate #: 9012121.11123 (BASE)
  Compiler Name: Tartan Ada Sun/C30, Version 4.1.1
  Host: Sun 3/50 (under SunOS Version 4.0.3)
  Target: Texas Instruments TMS320C30 Application Board (bare machine)

* Compiler Vendor: Tartan, Inc.
  Compiler Type: Base
  Validation Certificate #: 9012131.11119
  Compiler Name: Tartan Ada VMS/1750A, Version 4.0
  Host: VAXstation 3200 (under VMS 5.2)
  Target: Texas Instruments STL VHSC1 1750A (bare machine)

* Compiler Vendor: Tartan, Inc.
  Compiler Type: Derived
  Date of Validation by Registration: 12/1/91
  Validation Certificate #: 9012131.11119 (BASE)
  Compiler Name: Tartan Ada VMS/1750A, Version 4.1
  Host: VAXstation 3200 (under VMS 5.2)
  Target: Texas Instruments STL VHSC1 1750A (bare machine)

* Compiler Vendor: Tartan, Inc.
  Compiler Type: Derived
  Date of Validation by Registration: 8/25/93
  Validation Certificate #: 9012131.11119 (BASE)
  Compiler Name: Tartan Ada VMS/1750A, Version 4.3
  Host: VAXstation 3100 (under VMS 5.5)
  Target: Texas Instruments STL VHSC1 1750A, & Fairchild F8450 on an SBC-50 (MIL-STD-1750A) (bare machines)

* Compiler Vendor: Tartan, Inc.
  Compiler Type: Base
  Validation Certificate #: 90106131.11171
  Compiler Name: Tartan Ada VMS/6800X0, Version 4.1
  Host: VAXstation 3100 (under VMS 5.2)
  Target: Motorola MVME134 (MC68020) (bare machine)

* Compiler Vendor: Tartan, Inc.
  Compiler Type: Derived
  Date of Validation by Registration: 2/12/92
  Validation Certificate #: 90106131.11171 (BASE)
  Compiler Name: Tartan Ada VMS/6800X0, Version 4.1.1
  Host: VAXstation 3100 (under VMS 5.2)
  Target: Motorola MVME134 (MC68020), MVME143 (MC68030), & MVME165 (MC68040) (bare machines)

* Compiler Vendor: Tartan, Inc.
  Compiler Type: Derived
  Date of Validation by Registration: 7/24/92
  Validation Certificate #: 90106131.11171 (BASE)
  Compiler Name: Tartan Ada VMS/6800X0, Version 4.1.2
  Host: VAXstation 3100 (under VMS 5.2)
  Target: Motorola MVME134 (MC68020) (bare machine)

* Compiler Vendor: Tartan, Inc.
  Compiler Type: Derived
  Date of Validation by Registration: 8/26/93
  Validation Certificate #: 90106131.11171 (BASE)
  Compiler Name: Tartan Ada VMS/6800X0, Version 4.3
  Host: VAXstation 3100 (under VMS 5.5)
  Target: Motorola MVME134 (68020), MVME143 (68030), MVME165 (68040), MC68332 (CPU32), & MC68340 (CPU32) (bare machine)

* Compiler Vendor: Tartan, Inc.
  Compiler Type: Base
  Validation Certificate #: 920303131.11244
  Compiler Name: Tartan Ada SPARC C3X, Version 4.2
  Host: SPARCstation ELC (under SunOS version 4.1.1)
  Target: Texas Instruments TMS320C30 Application Board (bare machine)

* Compiler Vendor: Tartan, Inc.
  Compiler Type: Derived
  Date of Validation by Registration: 8/26/93
  Validation Certificate #: 920303131.11244 (BASE)
  Compiler Name: Tartan Ada SPARC C3X, Version 4.3
  Host: SPARCstation ELC (under SunOS version 4.1.1)
  Target: Texas Instruments TMS320C30 Application Board, & Atlanta Signal Processors E11 TMS320C31 board (bare machines)

* Compiler Vendor: Tartan, Inc.
  Compiler Type: Derived
  Validation Certificate #: 920303131.11245
  Compiler Name: Tartan Ada SPARC 1750A, Version 4.2
  Host: SPARCstation ELC (under SunOS version 4.1.1)
  Target: Fairchild F9450 on an SBC-50 board (MIL-STD-1750A) (bare machine)

* Compiler Vendor: Tartan, Inc.
  Compiler Type: Derived
  Date of Validation by Registration: 8/26/93
  Validation Certificate #: 920303131.11245 (BASE)
  Compiler Name: Tartan Ada SPARC 1750A, Version 4.3
  Host: SPARCstation ELC (under SunOS version 4.1.1)
  Target: Texas Instruments STL VHSC1 1750A, & Fairchild F9450 on an SBC-50 (MIL-STD-1750A) (bare machines)

* Compiler Vendor: Tartan, Inc.
  Compiler Type: Derived
  Date of Validation by Registration: 3/25/94
  Validation Certificate #: 920303131.11245 (BASE)
  Compiler Name: Tartan Ada SPARC 1750A, Version 4.2.1
  Host: SPARCstation ELC (under SunOS version 4.1.1)
  Target: Fairchild F9450 on an SBC-50 board (bare machine)
Ada PROCESSORS, Continued

* Compiler Vendor: Tartan, Inc.
  Compiler Type: Base
  Validation Certificate #: 92031311.11246
  Compiler Name: Tartan Ada SPARCS 680X0, Version 4.2
  Host: SPARCstation ELC (under SunOS version 4.1.1)
  Target: Motorola MVME134 (MC68020) (bare machine)

* Compiler Vendor: Tartan, Inc.
  Compiler Type: Derived
  Date of Validation by Registration: 8/26/93
  Validation Certificate #: 92031311.11246 (BASE)
  Compiler Name: Tartan Ada SPARCS/68XXX, Version 4.3
  Host: SPARCstation ELC (under SunOS version 4.1.1)
  Target: Motorola MVME134 (68020), MVME143 (68030), MVME165 (68040), MC68332 (CPU32), & MC68340 (CPU32) (bare machines)

* Compiler Vendor: Tartan, Inc.
  Compiler Type: Derived
  Date of Validation by Registration: 8/26/93
  Validation Certificate #: 92031311.11247
  Compiler Name: Tartan Ada SPARC 960mc, Version 4.2
  Host: SPARCstation ELC (under SunOS version 4.1.1)
  Target: Intel EXV80960MC board (bare machine)

* Compiler Vendor: Tartan, Inc.
  Compiler Type: Derived
  Date of Validation by Registration: 8/26/93
  Validation Certificate #: 92031311.11247 (BASE)
  Compiler Name: Tartan Ada SPARC 960mc, Version 4.2.2
  Host: SPARCstation ELC (under SunOS Version 4.1.1)
  Target: Intel EXV80960MC board (bare machine)

* Compiler Vendor: Tartan, Inc.
  Compiler Type: Derived
  Date of Validation by Registration: 1/28/93
  Validation Certificate #: 92031311.11247
  Compiler Name: Tartan Ada SPARC/RS6000/960mc, Version 4.2.2
  Host: IBM RISC System/6000 Model 320H (under AIX Version 3.2)
  Target: Intel EXV80960MC board (bare machine)

* Compiler Vendor: Tartan, Inc.
  Compiler Type: Derived
  Date of Validation by Registration: 8/26/93
  Validation Certificate #: 92031311.11247
  Compiler Name: Tartan Ada SPARC/RS6000/960mc/MPRT, Version 4.3
  Host: SPARCstation ELC (under SunOS version 4.1.1)
  Target: Cyclone CVMX962 board, Intel EXV80960MC board (bare machines)

* Compiler Vendor: Tartan, Inc.
  Compiler Type: Derived
  Date of Validation by Registration: 8/26/93
  Validation Certificate #: 92031311.11247 (BASE)
  Compiler Name: Tartan Ada SPARC/RS6000/960mc/MPRT, Version 4.3
  Host: SPARCstation ELC (under SunOS Version 4.1.1)
  Target: Cyclone CVMX962 board, Intel EXV80960MC board, & PI-660MX-JVX board (bare machines)

* Compiler Vendor: Tartan, Inc.
  Compiler Type: Derived
  Date of Validation by Registration: 11/10/94
  Validation Certificate #: 92031311.11247 (BASE)
  Compiler Name: Tartan Ada SPARC/RS6000/960mc/MPRT, Version 4.3.2
  Host: SPARCstation ELC (under SunOS, Version 4.1.1)
  Target: Intel 80960KB on an Intel EXV-960MC/EXV960 (Execution Vehicle) (bare machine)

* Compiler Vendor: Tartan, Inc.
  Compiler Type: Base
  Validation Certificate #: 92030301.11296
  Compiler Name: Tartan Ada VMS/C40, Version 4.2.1
  Host: VAXstation 4000 Model 60 (under VMS 5.5)
  Target: Texas Instruments TMS320C40 Parallel Processing Development System (bare machine)

* Compiler Vendor: Tartan, Inc.
  Compiler Type: Derived
  Date of Validation by Registration: 8/27/93
  Validation Certificate #: 92103031.11296 (BASE)
  Compiler Name: Tartan Ada SPARC/C40, Version 4.3
  Host: SPARCstation ELC (under SunOS version 4.1.1)
  Target: Texas Instruments TMS320C40 Parallel Development System (bare machine)

* Compiler Vendor: Tartan, Inc.
  Compiler Type: Derived
  Date of Validation by Registration: 8/27/93
  Validation Certificate #: 92103031.11296 (BASE)
  Compiler Name: Tartan Ada VMS/C40, Version 4.3
  Host: VAXstation 3100 (under VMS 5.5)
  Target: Texas Instruments TMS320C40 Parallel Development System (bare machine)

* Compiler Vendor: Tartan, Inc.
  Compiler Type: Derived
  Date of Validation by Registration: 9/26/93
  Validation Certificate #: 92103031.11296 (BASE)
  Compiler Name: Tartan Ada VMS/C40, Version 4.2.1
  Host: VAXstation 3100 (under VMS 5.5)
  Target: Texas Instruments TMS320C40 Parallel Development System (bare machine)

Compiler Vendor: TeleSoft
Address: (TeleSoft Ada products are now Alsys)
          (Alsys) Thomson Software Products
          67 South Bedford Street
City: Burlington
State: MA
Zip Code: 01803-5152
Country: Contact Name: Pat Michalowski
Phone: (617) 457-2700
E-mail: patm@alsys.com

* Compiler Vendor: TeleSoft
  Compiler Type: Base
  Validation Certificate #: 90002511.11012
  Compiler Name: TeleGen2 Sun-3 Ada Development System, Ver 4.01
  Host: Sun-3/280 (under Sun UNIX 4.2, Release 4.0.3)
  Target: Same as Host

* Compiler Vendor: TeleSoft
  Compiler Type: Base
  Validation Certificate #: 901128W1.11090
  Compiler Name: TeleGen2 Ada Host Development System, Version 4.1
  for SPARCSystems
  Host: Sun-4/280 (under Sun UNIX 4.2, Release 4.1)
  Target: Same as Host

* Compiler Vendor: TeleSoft
  Compiler Type: Derived
  Date of Validation by Registration: 1/24/92
  Validation Certificate #: 901128W1.11090 (BASE)
  Compiler Name: TeleGen2 Ada Host Development System, Version 4.1
  for SPARCSystems
  Host: Sun Microsystems Sun-4, SPARCserver, SPARCstation, & SPARCengine computer families (under SunOS 4.2, release 4.1)
  Target: Any Host

* Compiler Vendor: TeleSoft
  Compiler Type: Derived
  Date of Validation by Registration: 1/24/92
  Validation Certificate #: 901128W1.11090 (BASE)
  Compiler Name: TeleGen2 Ada Host Development System, Version 4.1
  for SPARCSystems
  Host: Solbourne Series 5 & 5E; and S4000 (under OS/MP 4.1)
  Target: Any Host
Ada PROCESSORS, Continued

* Compiler Vendor: TeleSoft
  Compiler Type: Derived
  Date of Validation by Registration: 12/16/92
  Validation Certificate #: 9011238W.11090 (BASE)
  Compiler Name: TeleGen2 Ada Cross Development System, Version 4.1 for SPARC
  Host: Sun Microsystems Sun-4, SPARClntel, & SPARCstation computer families (under Solaris 2.1)
  Target: Any Host

* Compiler Vendor: TeleSoft
  Compiler Type: Derived
  Date of Validation by Registration: 5/24/91
  Validation Certificate #: 9012111.11124 (BASE)
  Compiler Name: TeleGen2 Ada Cross Development System, Version 4.1 for VAX/VMS to 68K
  Host: DEC VAX-11, VAXserver, VAXstation, MicroVAX, VAX 6000, VAX 8000 & VAX 9000 Series of computers (under VMS Versions 5.0, 5.1, 5.2, 5.3 & 5.4, as supported)
  Target: Motorola MMVME135*-20 (MC68020) (bare machine)

* Compiler Vendor: TeleSoft
  Compiler Type: Derived
  Date of Validation by Registration: 5/24/91
  Validation Certificate #: 9012111.11124 (BASE)
  Compiler Name: TeleSoft TRIAD System, Ver 4.1 for VAX/VMS to 68K
  Host: DEC VAX-11, VAXserver, VAXstation, MicroVAX, VAX 6000, VAX 8000 & VAX 9000 Series of computers (under VMS Versions 5.0, 5.1, 5.2, 5.3 & 5.4, as supported)
  Target: Motorola MMVME147* (MC68020) (bare machines, using TeleAda-EXEC)

* Compiler Vendor: TeleSoft
  Compiler Type: Derived
  Date of Validation by Registration: 9/26/91
  Validation Certificate #: 9012111.11124 (BASE)
  Compiler Name: TeleGen2 Ada Cross Development System, Version 4.1 for VAX/VMS to 68K
  Host: DEC VAX-11, VAXserver, VAXstation, MicroVAX, VAX 6000, VAX 8000 & VAX 9000 Series of computers (as supported)
  Target: Motorola MMVME165* & MMVME167* (68040) board families (bare machines)

* Compiler Vendor: TeleSoft
  Compiler Type: Base
  Validation Certificate #: 9011251.11125
  Compiler Name: TeleGen2 Ada Cross Development System, Version 4.1 for VAX/VMS to MIPS
  Host: MicroVAX 3800 (under VAX/VMS Version 5.2)
  Target: Integrated Device Technology ID77RS301 System (R3000/R3010) (bare machine)

* Compiler Vendor: TeleSoft
  Compiler Type: Base
  Validation Certificate #: 9012121.11126
  Compiler Name: TeleGen2 Ada Cross Development System, Version 4.1 for SUN-3 to 68K
  Host: SUN-3/480 (under SUN UNIX, Release 4.1)
  Target: Motorola MMVME135-1 (MC68020) (bare machine)

* Compiler Vendor: TeleSoft
  Compiler Type: Derived
  Validation Certificate #: 9012321.11125
  Compiler Name: TeleGen2 Ada Cross Development System, Version 4.1 for VAX/VMS to MIPS
  Host: MicroVAX 3800 (under VAX/VMS Version 5.2)
  Target: Integrated Device Technology ID77RS301 System (R3000/R3010) (bare machine)

* Compiler Vendor: TeleSoft
  Compiler Type: Base
  Validation Certificate #: 9011251.11125
  Compiler Name: TeleGen2 Ada Cross Development System, Version 3.1 for VAX/VMS to 386
  Host: VAX 6210 (under VMS 5.3)
  Target: Intel ISBC 386-120 (80386/387) (bare machine, using TeleAda-EXEC 1.0)

* Compiler Vendor: TeleSoft
  Compiler Type: Derived
  Date of Validation by Registration: 2/27/92
  Validation Certificate #: 9012521.11130 (BASE)
  Compiler Name: TeleGen2 Ada Cross Development System, Version 3.1 for SPARC to 68K
  Host: Sun-4/60 (under SunOS 4.1)
  Target: Motorola MMVME147* (68030) (bare machine, using TeleAda-EXEC 1.0)

* Compiler Vendor: TeleSoft
  Compiler Type: Derived
  Date of Validation by Registration: 9/26/91
  Validation Certificate #: 9012521.11140 (BASE)
  Compiler Name: TeleGen2 Ada Cross Development System, Version 4.1 for SPARC to 68K
  Host: Sun Microsystems Sun-4, SPARClntel, & SPARCstation computer families (under SunOS 4.1)
  Target: Motorola MMVME135*, MMVME135*, MMVME136* (68020), MMVME141* & MMVME147* (68030); and MMVME165* & MMVME167* (68040) board families (bare machines, optionally using TeleAda EXEC 2.0)

* Compiler Vendor: TeleSoft
  Compiler Type: Base
  Validation Certificate #: 90172111.11194
  Compiler Name: TeleGen2 Ada HostDevelopment System, Version 4.1 for Maci1 Systems
  Host: Apple Macintosh IIx (under A/UX 2.0)
  Target: Same as Host

* Compiler Vendor: TeleSoft
  Compiler Type: Derived
  Date of Validation by Registration: 12/30/91
  Validation Certificate #: 90172111.11194 (BASE)
  Compiler Name: TeleGen2 Ada HostDevelopment System, Version 4.1 for Maci1 Systems
  Host: Apple Macintosh II family, & SE/30 (under A/UX Release 2.0)
  Target: Any Host

* Compiler Vendor: TeleSoft
  Compiler Type: Base
  Validation Certificate #: 9110261.11229
  Compiler Name: TeleGen2 Ada Development System, Version 3.25 for VAX to 1750A
  Host: MicroVAX 3800 (under VMS Version 5.4)
  Target: MIL-STD-1750A ECSP0 ITS RAID Simulator, Version 6.0 (bare machine simulation, executing on the Host)

* Compiler Vendor: TeleSoft
  Compiler Type: Base
  Validation Certificate #: 9112131.111235
  Compiler Name: TeleGen2 Ada Compilation System, Version 4.1 for VAX to 80960
  Host: MicroVAX 3800 (under VMS Version 5.4)
  Target: Intel EXV 960 MC-MIL (i960XA) (bare machine, using Hughes O.S. Ada RTS interface)
Ada PROCESSORS, Continued

* Compiler Vendor: TeleSoft
  Compiler Type: Base
  Validation Certificate #: 92102W1.11295
  Compiler Name: TeleGen2 Ada Cross Development System, Version 4.1.1 for SUN-4 to eMIPS
  Host: Sun-4/690 (under SunOS Release 4.1.2)
  Target: Integrated Device Technology IDT7RS301 System (R3000/R3010) (bare machine)

* Compiler Vendor: TeleSoft
  Compiler Type: Base
  Validation Certificate #: 9212181.11303
  Compiler Name: TeleGen2(tm) Ada Cross Development System, Version 4.1c for Sun-4 to i960
  Host: Sun-4/690 (under SunOS Release 4.1.2)
  Target: CVME062 System (i960XA board with MC Processor) (bare machine)

* Compiler Vendor: TeleSoft
  Compiler Type: Base
  Validation Certificate #: 9212181.11304
  Compiler Name: TeleGen2(tm) Ada Cross Development System, Version 4.1c for Sun-4 to e68k
  Host: Sun-4/690 (under SunOS Release 4.1.2)
  Target: Motorola MVME147S-1 (58030/68882) (bare machine)

Compiler Vendor: Texas Instruments, Inc.
Address: 6600 Chase Oaks Boulevard
City: Plano
State: TX
Zip Code: 75023
Country:
Contact Name: Dave Stuble
Phone: (214) 575-5346
E-mail: stuble@mccp.dse.ti.com

* Compiler Vendor: Texas Instruments, Inc.
  Compiler Type: Base
  Validation Certificate #: 001030W1.11052
  Compiler Name: MIPS-Ada, Version 3.0
  Host: MIPS M/2000 (under RISC/OS 4.02)
  Target: TI DP32 R3000 Processor (bare machine, using TI DP32 RTE Version 1.0)

* Compiler Vendor: Texas Instruments, Inc.
  Compiler Type: Base
  Validation Certificate #: 010403W1.11135
  Compiler Name: TI Ada, Version 1.0
  Host: MicroVAX 3400 (under VMS 5.3-1)
  Target: TI DP32 R3000 Processor (bare machine, using TI Executive and Runtime Services (EARS) Version 1.0)

* Compiler Vendor: Texas Instruments, Inc.
  Compiler Type: Base
  Validation Certificate #: 950511W1.11382
  Compiler Name: F-16 Modular Mission Computer Ada Compilation System, Version 2.5.0.1
  Host: VAXstation 4000/90 (under VMS 5.5-2H4)
  Target: F-16 Modular Mission Computer (bare machine)

Compiler Vendor: Thomson Software Products
Address: (formerly Alysys)
87 South Bedford Street
City: Burlington
State: MA
Zip Code: 01803-5152
Country:
Contact Name: Pat Michalowski
Phone: (617) 457-2700
E-mail: patm@alysys.com

* Compiler Vendor: Thomson Software Products
  Compiler Type: Derived
  Date of Validation by Registration: 5/15/95
  Validation Certificate #: 901102W1.11055 (BASE)
  Compiler Name: ActivAda for Windows, Version 5.1.3
  Host: Any computer system comprising: cpu-any that executes the Intel 80386, 80486, or Pentium instruction set; memory-8 MByte RAM; disk-50 MByte hard drive; OS- MS-DOS 6.2 or higher, with Windows 3.1
  Target: Any Host

* Compiler Vendor: Thomson Software Products
  Compiler Type: Derived
  Date of Validation by Registration: 5/16/95
  Validation Certificate #: 901221W1.11103 (BASE)
  Compiler Name: AlayCOMP 0.82, Version 5.5
  Host: Any computer system comprising: cpu-any that executes the Intel 80386 or 80486 instruction set; memory-20 MByte RAM; disk-20 MByte hard drive; OS- 386 Solaris, Version 2.1
  Target: Any Host

Compiler Vendor: TISOFT, Inc.
Address: 10521 Rosshave Street, Suite 200
City: Fairfax
State: VA
Zip Code: 22030
Country:
Contact Name: David Hicks
Phone: 
E-mail: (No e-mail address given)

* Compiler Vendor: TISOFT, Inc.
  Compiler Type: Base
  Validation Certificate #: 94101251.11379
  Compiler Name: Green Hills Optimizing Ada Compiler, Version 1.8.7 with Patch ID 1
  Target: Same as Host

* Compiler Vendor: TISOFT, Inc.
  Compiler Type: Derived
  Date of Validation by Registration: 10/19/94
  Validation Certificate #: 94101251.11379 (BASE)
  Compiler Name: Green Hills Optimizing Ada Compiler, Version 1.8.7 with Patch ID 1
  Target: Any Host

Compiler Vendor: TLD Systems, Ltd.
Address: 3625 Del Amo Boulevard, Suite 100
City: Torrance
State: CA
Zip Code: 90503
Country:
Contact Name: Terry Dunbar
Phone: (310) 542-5433
E-mail: tld_ptr@cerf.net

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Ada PROCESSORS, Continued

* Compiler Vendor: TLD Systems, Ltd.
  Compiler Type: Derived
  Date of Validation by Registration: 8/6/92
  Validation Certificate #: 920319W1.11243
  Compiler Name: TLD VAX/MIL-STD-1750A Ada Compiler System, Version 2.9.0
  Host: DEC VAX-11, VAXserver, VAXstation, MicroVAX, VAX 4000, VAX 6000, VAX 8000, & VAX 9000 Series of computers (under VMS 5.4)
  Target: TLDmps MIL-STD-1750A Multiple Processor Simulator (bare machine simulation, using the TLDtrk Real-time Executive, Version 2.0.0, executing on the Host)

* Compiler Vendor: TLD Systems, Ltd.
  Compiler Type: Derived
  Validation Certificate #: 940305W1.11335
  Compiler Name: TLD Comanche VAX/MIL-STD-1750A Ada Compiler System, Version 4.1.1
  Host: DEC Local Area Network VAX Cluster (comprising 2 MicroVAX 3100 Model 90 machines) (under VMS 5.5)
  Target: Tronix JIAWG Execution Vehicle (i960MX) [bare machines using TLD Real Time Executive (TLDtrk), (Domain Configuration), Version 4.1.1]

* Compiler Vendor: TLD Systems, Ltd.
  Compiler Type: Derived
  Date of Validation by Registration: 5/27/94
  Validation Certificate #: 93012W1.11329
  Host: VAXstation 4000 Model 60 (under VMS 5.5)
  Target: TLDmps MIL-STD-1750A Multiple Processor Simulator, executing on the Host (bare machine simulation, using TLDtrk Real Time Executive, 3.4.C)

* Compiler Vendor: TLD Systems, Ltd.
  Compiler Type: Derived
  Validation Certificate #: 940305W1.11335
  Compiler Name: TLD Comanche VAX/i960 Ada Compiler System, Version 4.1.1
  Host: DEC VAX-11, VAXserver, VAXstation, MicroVAX, VAX 4000, VAX 6000, VAX 8000, & VAX 9000 Series of computers (under VMS 5.5)
  Target: Tronix JIAWG Execution Vehicle (i960MX) [bare machines using TLD Real Time Executive (TLDtrk), (Domain Configuration), Version 4.1.1]

* Compiler Vendor: TLD Systems, Ltd.
  Compiler Type: Derived
  Validation Certificate #: 940305W1.11335
  Compiler Name: TLD Comanche VAX/i960 Ada Compiler System, Version 4.1.1
  Host: DEC Local Area Network VAX Cluster (comprising 2 MicroVAX 3100 Model 90 machines) (under VMS 5.5)
  Target: Tronix JIAWG Execution Vehicle (i960MX) [bare machines using TLD Real Time Executive (TLDtrk), (Domain Configuration), Version 4.1.1]

* Compiler Vendor: TLD Systems, Ltd.
  Compiler Type: Derived
  Date of Validation by Registration: 8/6/92
  Validation Certificate #: 920319W1.11242
  Compiler Name: TLD VAX/MIL-STD-1750A Ada Compiler System, Version 2.9.0
  Host: MicroVAX 3500 (under VMS, Version 5.1)
  Target: TLD MIL-STD-1750A Multiple Processor Simulator (bare machine simulation, using the TLDtrk Real-time Executive, Version 2.0.0, executing on the Host)
Ada PROCESSORS, Continued

Compiler Vendor: U.S. Air Force
Address: C/O-ALC/TS/EA
2728 4th Street, Building 100
City: Hill AFB
State: UT
Zip Code: 84056-2505
Country:
Contact Name: Les Dupiax
Phone: (801) 777-7850
E-mail: dupiax@stscba.hill.af.mil

* Compiler Vendor: U.S. Air Force
  Compiler Type: Base
  Validation Certificate #: 910425W1.11142
  Compiler Name: AFCAS1750A Ada Compiler, Version 1.0
  Host: VAXstation 3100 (under VMS Version 5.3)
  Target: Air Force RAID MIL-STD-1750A simulator (bare machine simulation, executing on the Host)

* Compiler Vendor: U.S. Air Force
  Compiler Type: Derived
  Date of Validation by Registration: 4/16/92
  Validation Certificate #: 910425W1.11142 (BASE)
  Compiler Name: AFCAS1750A Ada Compiler, Version 1.1
  Host: DEC VAXstation 3100 (under VMS Version 5.4)
  Target: Air Force RAID MIL-STD-1750A simulator (bare machine simulation, executing on the Host)

* Compiler Vendor: U.S. Air Force
  Compiler Type: Base
  Validation Certificate #: 910425W1.11143
  Compiler Name: AFCAS1750A/XMEM Ada Compiler, Version 1.0
  Host: VAXstation 3100 (under VMS Version 5.3)
  Target: Air Force RAID MIL-STD-1750A simulator (bare machine simulation, executing on the Host)

* Compiler Vendor: U.S. Air Force
  Compiler Type: Derived
  Date of Validation by Registration: 4/16/92
  Validation Certificate #: 910425W1.11143 (BASE)
  Compiler Name: AFCAS1750A/XMEM Ada Compiler, Version 1.1
  Host: DEC VAXstation 3100 (under VMS Version 5.4)
  Target: Air Force RAID MIL-STD-1750A simulator (bare machine simulation, executing on the Host)

Compiler Vendor: U.S. Navy
Address: NAVSEA 91WS
City: Washington
State: DC
Zip Code: 20362-5101
Contact Name: Bill Wilder
Phone: (703) 602-8204
E-mail: Wilder_William_L@hq.navsea.navy.mil

* Compiler Vendor: U.S. Navy
  Compiler Type: Base
  Validation Certificate #: 910517S1.11162
  Compiler Name: AdaVAX, Version 5.0 (OPTIMIZE)
  Host: VAX 8600 (under VMS Version 5.3)
  Target: Same as Host

* Compiler Vendor: U.S. Navy
  Compiler Type: Base
  Validation Certificate #: 910517S1.11153
  Compiler Name: AdaVAX, Version 5.0 (NO_OPTIMIZE)
  Host: VAX 8600 (under VMS Version 5.3)
  Target: Same as Host

* Compiler Vendor: U.S. Navy
  Compiler Type: Base
  Validation Certificate #: 910517S1.11164
  Compiler Name: AdaVAX, Version 5.0 (OPTIMIZE)
  Host: VAX 11/785 (under VMS Version 5.3)
  Target: Same as Host

* Compiler Vendor: U.S. Navy
  Compiler Type: Base
  Validation Certificate #: 910626S1.11165
  Compiler Name: AdaVAX, Version 5.0 (NO_OPTIMIZE)
  Host: VAX 11/785 (under VMS Version 5.3)
  Target: Same as Host

* Compiler Vendor: U.S. Navy
  Compiler Type: Base
  Validation Certificate #: 910626S1.11172
  Compiler Name: Ada/L, Version 4.0 (OPTIMIZE)
  Host: VAX 8550 (under VMS Version 5.3)
  Target: AN/UYK-43 (single cpu) (bare machine)

* Compiler Vendor: U.S. Navy
  Compiler Type: Base
  Validation Certificate #: 910626S1.11174
  Compiler Name: Ada/M, Version 4.0 (OPTIMIZE)
  Host: VAX 8550 (under VMS Version 5.3)
  Target: AN/UYK-44 (EMR) (bare machine)

* Compiler Vendor: U.S. Navy
  Compiler Type: Base
  Validation Certificate #: 910626S1.11175
  Compiler Name: Ada/M, Version 4.0 (OPTIMIZE)
  Host: VAX 8550 (under VMS Version 5.3)
  Target: AN/UYK-14 (bare machine)

* Compiler Vendor: U.S. Navy
  Compiler Type: Base
  Validation Certificate #: 910626S1.11176
  Compiler Name: Ada/L, Version 4.0 (OPTIMIZE)
  Host: VAX-11/785 (under VMS Version 5.3)
  Target: AN/UYK-43 (EMR) (bare machine)

* Compiler Vendor: U.S. Navy
  Compiler Type: Base
  Validation Certificate #: 910626S1.11177
  Compiler Name: Ada/L, Version 4.0 (OPTIMIZE)
  Host: VAX-11/785 (under VMS Version 5.3)
  Target: AN/UYK-44 (EMR) (bare machine)

* Compiler Vendor: U.S. Navy
  Compiler Type: Base
  Validation Certificate #: 910626S1.11178
  Compiler Name: Ada/M, Version 4.0 (OPTIMIZE)
  Host: VAX-11/785 (under VMS Version 5.3)
  Target: AN/UYK-14 (bare machine)

* Compiler Vendor: U.S. Navy
  Compiler Type: Base
  Validation Certificate #: 920618S1.11270
  Compiler Name: AdaVAX, Version 5.5 (OPTIMIZE)
  Host: VAXstation 4000 (under VMS Version 5.5)
  Target: Same as Host
Ada PROCESSORS, Continued

* Compiler Vendor: U.S. Navy
  Compiler Type: Base
  Validation Certificate #: 92091S1.11271
  Compiler Name: AdaVAX, Version 5.5 (NO_OPTIMIZE)
  Host: VAXstation 4000 (under VMS Version 5.5)
  Target: Same as Host

* Compiler Vendor: U.S. Navy
  Compiler Type: Base
  Validation Certificate #: 92091S1.11272
  Compiler Name: Ada/M, Version 4.5 (OPTIMIZE)
  Host: VAX Cluster (comprising VAX 8550, 8600, & 8650 machines)
  (under VMS Version 5.3)
  Target: Enhanced Processor (EP) AN/UYK-44 (bare machine)

* Compiler Vendor: U.S. Navy
  Compiler Type: Base
  Validation Certificate #: 92091S1.11273
  Compiler Name: Ada/M, Version 4.5 (OPTIMIZE)
  Host: VAX Cluster (comprising VAX 8550, 8600, & 8650 machines)
  (under VMS Version 5.3)
  Target: VHSEC Processor Module (VPM) AN/UYK-14 (bare machine)

* Compiler Vendor: U.S. Navy
  Compiler Type: Base
  Validation Certificate #: 92091S1.11274
  Compiler Name: Ada/M, Version 4.5 (NO_OPTIMIZE)
  Host: VAX Cluster (comprising VAX 8550, 8600, & 8650 machines)
  (under VMS Version 5.3)
  Target: Enhanced Processor (EP) AN/UYK-44 (bare machine)

* Compiler Vendor: U.S. Navy
  Compiler Type: Base
  Validation Certificate #: 92091S1.11275
  Compiler Name: Ada/M, Version 4.5 (NO_OPTIMIZE)
  Host: VAX Cluster (comprising VAX 8550, 8600, & 8650 machines)
  (under VMS Version 5.3)
  Target: VHSEC Processor Module (VPM) AN/UYK-14 (bare machine)

Compiler Vendor: UNISYS Corporation
Address: 506 Highway 85 North
City: Niceville
State: FL
Zip Code: 32578
Contact Name: Joseph Kovach
Phone: (904) 678-4217
E-mail: (No e-mail address given)

* Compiler Vendor: UNISYS Corporation
  Compiler Type: Base
  Validation Certificate #: 91051OSI.11161
  Compiler Name: UCS Ada, Version 1R1
  Host: UNISYS 2200/600 (under OS1100, Version 43R2)
  Target: Same as Host

* Compiler Vendor: UNISYS Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 8/29/91
  Validation Certificate #: 91051OSI.11161 (BASE)
  Compiler Name: UCS Ada, Version 1R1
  Host: UNISYS 1100/80, 2200/100, /200, /400, /600, & /900 (under OS 1100, Versions 43R2 & 43R3, as supported)
  Target: Any Host

Compiler Vendor: Verdix Corporation
Address: (Verdix Ada products are now Rational)
Rational Software Corporation
1800 NW Compton Drive, Suite 357
City: Aloha
State: OR
Zip Code: 97006
Contact Name: Ben Priest
Phone: (503) 690-1116, ext. 6703
E-mail: brp@rational.com

* Compiler Vendor: Verdix Corporation
  Compiler Type: Base
  Validation Certificate #: 900228W1.11001
  Compiler Name: VAda-110-6161, Version 6.0.2
  Host: DECstation 3100 (under ULTRIX 3.1)
  Target: Same as Host

* Compiler Vendor: Verdix Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 7/25/90
  Validation Certificate #: 900228W1.11001 (BASE)
  Compiler Name: VAda-110-6161, Version 6.0.2
  Host: DECstation 2100, 2400, 5000 & 8000; and DECSystem 3100, 5000, 5100, 5200, 5400, 5500, 5810, 5820, 5830 & 5840
  (under ULTRIX 3.1)
  Target: Any Host

* Compiler Vendor: Verdix Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 4/17/91
  Validation Certificate #: 900228W1.11001 (BASE)
  Compiler Name: VADS DEC-RISC, Ultrix 4.0, VAda-110-6161, Ver 6.0
  Host: DECstation 2100, 3100, 5000 & 8000; and DECsystem 3100, 5000, 5100, 5200, 5400, 5500, 5810, 5820, 5830 & 5840
  (under ULTRIX 4.0)
  Target: Any Host

* Compiler Vendor: Verdix Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 7/31/91
  Validation Certificate #: 900228W1.11001 (BASE)
  Compiler Name: VADS DEC-RISC, Ultrix 4.1, VAda-110-6161, Ver 6.0
  Host: DECstation 2100, 3100, 5000 & 8000; and DECsystem 3100, 5000, 5100, 5200, 5400, 5500, 5810, 5820, 5830 & 5840
  (under ULTRIX 4.1)
  Target: Any Host

* Compiler Vendor: Verdix Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 11/10/93
  Validation Certificate #: 900228W1.11001 (BASE)
  Compiler Name: VADS DEC-RISC, VAda-110-6161, Ver 6.0, 6.1, & 6.2
  Host: Digital Equipment Corp. DECstation & DECsystem series of MIPS-based computers
  (under ULTRIX 3.1, 4.0, 4.1, 4.2, & 4.3)
  Target: Any Host

* Compiler Vendor: Verdix Corporation
  Compiler Type: Base
  Validation Certificate #: 900228W1.11002
  Compiler Name: VAda-110-0202, Version 6.0
  Host: VAXsystem 3100 (under ULTRIX 3.1)
  Target: Same as Host

* Compiler Vendor: Verdix Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 4/17/91
  Validation Certificate #: 900228W1.11002 (BASE)
  Compiler Name: VAda-110-0202, Version 6.0
  Host: DEC VAX-11, MicroVAX, VAXserver, VAXstation, VAX 8000, VAX 8000 & VAX 9000 series (under ULTRIX 4.0)
  Target: Any Host
Ada PROCESSORS, Continued

* Compiler Vendor: Veridex Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 8/28/01
  Validation Certificate #: 900028W1.11002 (BASE)
  Compiler Name: VAda-110-0202, Version 6.0
  Host: DEC VAX-11, VAXserver, VAXstation, MicroVAX, VAX 6000, VAX 8000 & VAX 9000 Ser of computers (under ULTRIX 4.2)
  Target: Any Host

* Compiler Vendor: Veridex Corporation
  Compiler Type: Base
  Validation Certificate #: 9000510W1.11003
  Compiler Name: VADS Sun3 SunOS, VAda-110-1313, Version 6.0
  Host: Sun 3/3280 (under SunOS 4.0)
  Target: Same as Host

* Compiler Vendor: Veridex Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 6/18/01
  Validation Certificate #: 9000510W1.11003 (BASE)
  Compiler Name: VADS Sun-3 Sun OS, VAda-110-1313, Version 6.0
  Host: Sun-3/50, 80, /80, /150, /160, /260, /280, /470 & /480 (under SunOS 4.0 & 4.1)
  Target: Any Host machine (under same OS version)

* Compiler Vendor: Veridex Corporation
  Compiler Type: Base
  Validation Certificate #: 9000510W1.11004
  Compiler Name: VADS IBM PS/2 AIX >= Intel 80386, VAda-110-35315, Version 6.0
  Host: IBM PS/2 Model 80 (under AIX 1.1)
  Target: Intel ISBC 386/12 (bare machine)

* Compiler Vendor: Veridex Corporation
  Compiler Type: Base
  Validation Certificate #: 9000510W1.11005
  Compiler Name: VADS IBM PS/2 AIX >= 86K, VAda-110-35125, V 6.0
  Host: IBM PS/2 Model 80 (under AIX 1.1)
  Target: Motorola MVME133A-20 (MC68020) (bare machine)

* Compiler Vendor: Veridex Corporation
  Compiler Type: Base
  Validation Certificate #: 9000510W1.11006
  Compiler Name: VADS Sun-4 SunOS, VAda-110-4040, Version 6.0
  Host: Sun 4/280 (under SunOS 4.0)
  Target: Same as Host

* Compiler Vendor: Veridex Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 11/16/90
  Validation Certificate #: 9000510W1.11006 (BASE)
  Compiler Name: VAda-110-4040, Version 6.0
  Host: Sun-4/20, /65, /110, /150 & /260; SPARCserver 310, 330, 370, 390, 470 & 490; SPARStation SLC, 1, 1+, 2, 310, 330 & 370; and SPARCengine 1 VME (under SunOS 4.1)
  Target: Any Host

* Compiler Vendor: Veridex Corporation
  Compiler Type: Base
  Validation Certificate #: 9000510W1.11007
  Compiler Name: VADS Sun3 SunOS => 68K, VAda-110-13125, Ver 6.0
  Host: Sun 3/280 (under SunOS 4.0)
  Target: Motorola MVME147 (MC68020) (bare machine)

* Compiler Vendor: Veridex Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 9/1/01
  Validation Certificate #: 9000510W1.11007 (BASE)
  Compiler Name: VADS HP 9000/300, HP-UX 7.0, VAda-110-1515, Version 6.0
  Host: HP 9000/350 (under HP-UX 7.0)
  Target: Same as Host

* Compiler Vendor: Veridex Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 4/16/91
  Validation Certificate #: 9000726W1.11018 (BASE)
  Compiler Name: VADS HP 9000/300, HP-UX 7.0, VAda-110-1515, Version 6.0
  Host: HP 9000 Series 300 Models 310, 320, 330, 340, 350, 360 & 370 (under HP-UX 7.0)
  Target: Any Host

* Compiler Vendor: Veridex Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 11/10/93
  Validation Certificate #: 9000726W1.11017 (BASE)
  Compiler Name: VADS IBM RISC System/6000, AIX 3.1, VAda-110-7171, Version 6.0
  Host: IBM RISC System/6000 Models 320, 520, 540, 730 & 930 (under AIX 3.1)
  Target: Any Host

* Compiler Vendor: Veridex Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 3/30/92
  Validation Certificate #: 9000726W1.11017 (BASE)
  Compiler Name: VADS IBM RISC System/6000, AIX 3.1, VAda-110-7171, Version 6.0
  Host: IBM RISC System/6000 Models 220, 320, 320H, 340, 350, 520, 520H, 530H, 540, 550, 560, 730, 930, & 950 (under AIX 3.2)
  Target: Any Host

* Compiler Vendor: Veridex Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 11/10/93
  Validation Certificate #: 9000726W1.11017 (BASE)
  Compiler Name: VADS IBM RISC System/6000, AIX 3.1, VAda-110-7171, Version 6.0
  Host: IBM RISC System/6000 Ser of computers (under AIX 3.1 & 3.2)
  Target: Any Host

* Compiler Vendor: Veridex Corporation
  Compiler Type: Base
  Validation Certificate #: 9000726W1.11018
  Compiler Name: VADS HP 9000/300, HP-UX 7.0, VAda-110-1515, Version 6.0
  Host: HP 9000/350 (under HP-UX 7.0)
  Target: Same as Host

* Compiler Vendor: Veridex Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 4/16/91
  Validation Certificate #: 9000726W1.11018 (BASE)
  Compiler Name: VADS HP 9000/300, HP-UX 7.0, VAda-110-1515, Version 6.0
  Host: HP 9000 Series 300 Models 310, 320, 330, 340, 350, 360 & 370 (under HP-UX 7.0)
  Target: Any Host

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**Ada PROCESSORS, Continued**

* Compiler Vendor: Verdix Corporation
  Compiler Type: Base
  Validation Certificate #: 900726W1.11019
  Compiler Name: VADS Prime EXL/320, UNIX System V/386 3.2, VAda-110-3322, Version 6.0
  Host: Prime EXL/320 (under UNIX System V/386 3.2)
  Target: Same as Host

* Compiler Vendor: Verdix Corporation
  Compiler Type: Base
  Validation Certificate #: 900726W1.11020
  Compiler Name: VADS VAX/VMS 5.2, VAda-110-0303, Version 6.0
  Host: MicroVAX 3100 (under VAX/VMS V5.2)
  Target: Same as Host

* Compiler Vendor: Verdix Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 2/3/92
  Validation Certificate #: 900726W1.11020 (BASE)
  Compiler Name: VADS VAX/VMS 5.3, VAda-110-0303, Version 6.0
  Host: DEC VAX-11, VAXserver, VAXstation, MicroVAX, VAX 8000, VAX 8000 & VAX 9000 Series of computers (under VMS 5.3)
  Target: Any Host

* Compiler Vendor: Verdix Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 11/12/93
  Validation Certificate #: 900726W1.11020 (BASE)
  Compiler Name: VADS VAX/VMS 5.2, VAda-110-0303, Ver 6.0 & 6.2
  Host: DEC VAX-11, MicroVAX, VAXserver, VAXstation, and VAX 6000, 8000, & 9000 series of computers (under VMS 5.0, 5.2, & 5.3)
  Target: Any Host

* Compiler Vendor: Verdix Corporation
  Compiler Type: Base
  Validation Certificate #: 900726W1.11021
  Compiler Name: VADS VAX/VMS =>68K, VMS 5.2, VAda-110-03125, Version 6.0
  Host: Motorola MVME147 (MC68030) (bare machine)
  Target: MVME147 (MC68030)

* Compiler Vendor: Verdix Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 4/22/91
  Validation Certificate #: 900726W1.11021 (BASE)
  Compiler Name: VADS VAX/VMS => 68K, VMS 5.2, VAda-110-03125, Version 6.0
  Host: DEC VAX-11, VAXserver, VAXstation, MicroVAX, VAX 6000, VAX 8000 & VAX 9000 Series of computers (under VMS 5.2)
  Target: Cyclone CVME 48, CVME 48 & CVME 48E; Force CPU 21, CPU 29, CPU 30, CPU 31, CPU 32, CPU 37 & Golden Triangle Firepower; Heurikon HK80/V30 Series, V2E Series & V2F Series; Integrated Solutions VME68K20, VME68K30, VME68225 & Liberator SBC; Matrix MS-CPU220 & MS-CPU320; Mizar MZ7120, MZ7122, MZ7124, MZ7130, MZ8120, MZ8130; Sun Microsystems 3E Board Set; Motorola MVME147 Series & MVME141 (MC68030), MVME135 Series, MVME135, & MVME135 (MC68020), MVME165 &MVME167; Tadpole TP32V & TP33M (bare machines)

* Compiler Vendor: Verdix Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 2/3/92
  Validation Certificate #: 900726W1.11022
  Compiler Name: VADS DEC-RISK=>68K, Ultrix 3.1, VAda-110-03125, Version 6.0
  Host: DEC VAX-11, VAXstation, MicroVAX, VAX 6000, VAX 8000 & VAX 9000 Series of computers (under VMS 5.3)
  Target: Intel ISB 386/32 (bare machine)

* Compiler Vendor: Verdix Corporation
  Compiler Type: Base
  Validation Certificate #: 900726W1.11023
  Compiler Name: VADS VAX/Ultrix =>68K, Ultrix 3.1, VAda-110-02125, Version 6.0
  Host: DEC VAX-11, VAXserver, VAXstation, MicroVAX, VAX 6000, VAX 8000 & VAX 9000 Series of computers (under Ultrix 3.1)
  Target: Cyclone CVME 48, CVME 48 & CVME 48E; Force CPU 21, CPU 29, CPU 30, CPU 31, CPU 32, CPU 37 & Golden Triangle Firepower; Heurikon HK68/V30 Series, V2E Series & V2F Series; Integrated Solutions VME68K20, VME68K30, VME68225 & Liberator SBC; Matrix MS-CPU220 & MS-CPU320; Mizar MZ7120, MZ7122, MZ7124, MZ7130, MZ8120, MZ8130; Sun Microsystems 3E Board Set; Motorola MVME147 Series & MVME141 (MC68030), MVME135 Series, MVME135, & MVME135 (MC68020); Tadpole TP32V & TP33M (bare machines); Tektronix MV System, MV86020 Support System using TekDB Version 5.0.2 emulation software (bare machine simulation)

* Compiler Vendor: Verdix Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 11/23/93
  Validation Certificate #: 900726W1.11023 (BASE)
  Compiler Name: VADS VAX/Ultrix =>68K, Ultrix 3.1, VAda-110-02125, Version 6.0
  Host: DEC VAX-11, VAXserver, VAXstation, MicroVAX, VAX 6000, VAX 6000, & VAX 9000 Series of computers (under Ultrix 4.0, 4.1, & 4.2)
  Target: Cyclone CVME 48; Force CPU 21, CPU 29, CPU 30, CPU 31, CPU 32, CPU 37; Heurikon HK68/V2F Series, HK68/V30 Series, & HK68/V3E Series; Matrix MS-CPU220, MS-CPU320, & MS-CPU330; Mizar MZ7120, MZ7124, MZ7130, MZ8120, MZ8130; Motorola MVME147 Series & MVME141 (MC68030), MVME135 Series, MVME135, & MVME135 (MC68020); Tadpole TP32V & TP33M (bare machines); Tektronix MV System, MV86020 Support System using TekDB Version 5.0.2 emulation software (bare machine simulation)

* Compiler Vendor: Verdix Corporation
  Compiler Type: Base
  Validation Certificate #: 900726W1.11024
  Compiler Name: VADS DEC-RISK=>68K, Ultrix 3.1, VAda-110-01125, Version 6.0
  Host: DEC VAX-11, VAXstation, MicroVAX, VAX 6000, VAX 8000 & VAX 9000 Series of computers (under VMS 5.3)
  Target: Motorola MVME147 (MC68030) (bare machine)
**Ada PROCESSORS, Continued**

* Compiler Vendor: Veridix Corporation
  **Compiler Type:** Derived
  **Date of Validation by Registration:** 4/2/91
  **Validation Certificate #:** 9907826W1.11024 (BASE)
  **Compiler Name:** VADS DEC-RISC => 68K, Ultrix 4.0, VAda-110-61125, Version 6.0
  **Host:** DECstation 3100, 3100, 5000 & 5200; and DECsystem 3100, 5000, 5100, 5200, 5400, 5500, 5810, 5820, 5830 & 5840 (under ULTRIX 4.0)
  **Target:** Cyclone CVME 44, CVME 46 & CVME 48; Force CPU 21, CPU 29, CPU 30, CPU 31, CPU 32, CPU 37 & Golden Triangle Firepower; Heurikon HK68/V30 Series, V2E Series & V2F Series; Integrated Solutions VME68K20, VME68K30, VME68225 & Liberator SBC; Matrix MS-CPU220 & MS-CPU320, Mizar MZ7120, MZ7122, MZ7124, MZ7130, MZ8120, MZ8130; Sun Microsystems 3E Board Set; Motorola MVME147 Series (MC68030), MVME133 Series, MVME134 & MVME135 (MC68020); Tadpole TP32V & TP33M (bare machines)

* Compiler Vendor: Veridix Corporation
  **Compiler Type:** Derived
  **Date of Validation by Registration:** 11/2/93
  **Validation Certificate #:** 9007826W1.11024 (BASE)
  **Compiler Name:** VADS DEC-RISC => 68K, Ultrix 3.1, VAda-110-61125, Versions 6.0, 6.1, 6.2
  **Host:** Digital Equipment Corp. DECstation & DECsystem series of MIPS-based computers (under ULTRIX 3.1, 4.0, 4.1, 4.2, & 4.3)
  **Target:** Cyclone CVME 48; Force CPU 21, CPU 29, CPU 30, CPU 31, CPU 32, CPU 37; Heurikon HK68/V2Fb Series, HK68/V30 Series, & HK68/V3E Series; Matrix MS-CPU220, MS-CPU320, & MS-CPU330; Mizar MZ7120, MZ7122, MZ7124, MZ7130, MZ8120, MZ8130; Motorola MVME147 Series & MVME141 (MC68030), MVME133 Series, MVME134, MVME135, & MVME147 Series; Radstone CPU-2A; SBE VCOM-24; & Tadpole TP32V (bare machines)

* Compiler Vendor: Veridix Corporation
  **Compiler Type:** Derived
  **Date of Validation by Registration:** 12/1/93
  **Validation Certificate #:** 9007826W1.11025 (BASE)
  **Compiler Name:** VADS IBM RISC System/6000 => 68K, VAda-110-71125, Versions 6.0, 6.1, & 6.2
  **Host:** IBM RISC System/6000 System of computers (under AIX 3.1 & 3.2)
  **Target:** Cyclone CVME 48; Force CPU 21, CPU 29, CPU 30, CPU 31, CPU 32, CPU 37; Heurikon HK68/V2Fb Series, HK68/V30 Series, HK68/V3E Series; Matrix MS-CPU220, MS-CPU320, & MS-CPU330; Mizar MZ7120, MZ7122, MZ7124, MZ7130, MZ8120, MZ8130; Motorola MVME133 Series, MVME134, MVME135, & MVME147 Series; Radstone CPU-2A; & Tadpole TP32V (bare machine)

* Compiler Vendor: Veridix Corporation
  **Compiler Type:** Derived
  **Date of Validation by Registration:** 2/2/92
  **Validation Certificate #:** 9007826W1.11026 (BASE)
  **Compiler Name:** VADS IBM RISC System/6000 => 386, AIX 3.1, VAda-110-71315, Version 6.0
  **Host:** IBM RISC System/6000 Models 320, 520, 540, 730 & 930 (under AIX 3.1)
  **Target:** Intel i386 386/116 (bare machine)

* Compiler Vendor: Veridix Corporation
  **Compiler Type:** Derived
  **Date of Validation by Registration:** 3/30/92
  **Validation Certificate #:** 9007826W1.11026 (BASE)
  **Compiler Name:** VADS IBM RISC System/6000 => 386, AIX 3.1, VAda-110-71315, Version 6.0
  **Host:** IBM RISC System/6000 Models 220, 320, 320H, 340, 350, 520, 520H, 530H, 540, 550, 560, 730, 930, & 950 (under AIX 3.2)
  **Target:** Intel i386 386/125 (bare machine)

* Compiler Vendor: Veridix Corporation
  **Compiler Type:** Derived
  **Date of Validation by Registration:** 11/23/93
  **Validation Certificate #:** 9007826W1.11097 (BASE)
  **Compiler Name:** VADS Sun4 => 68K, SunOS 4.0, VAda-110-40125, Version 6.0 & 6.2
  **Host:** Sun Microsystems Sun-4, SPARCstation, & SPARClserver computer families (under SunOS 4.0, 4.1, & 4.2)
  **Target:** Cyclone CVME 48; Force CPU 21, CPU 29, CPU 30, CPU 31, CPU 32, CPU 37; Heurikon HK68/V2Fb Series, HK68/V30 Series, HK68/V3E Series; Matrix MS-CPU220, MS-CPU320, & MS-CPU330; Mizar MZ7120, MZ7122, MZ7124, MZ7130, MZ8120, MZ8130; Sun Microsystems 3E Board Set; Motorola MVME133 Series, MVME134, MVME135, & MVME147 Series; & Tadpole TP32V & TP33M (bare machines)

* Compiler Vendor: Veridix Corporation
  **Compiler Type:** Base
  **Validation Certificate #:** 9007826W1.11026
  **Compiler Name:** VADS IBM RISC System/6000 => 386, AIX 3.1, VAda-110-71315, Version 6.0
  **Host:** IBM RISC System/6000 Model 530 (under AIX 3.1)
  **Target:** Intel i386 386/116 (bare machine)

* Compiler Vendor: Veridix Corporation
  **Compiler Type:** Base
  **Validation Certificate #:** 9007826W1.11094
  **Compiler Name:** VADS VAX/VMS => 68K, VAda-110-03125, V 6.0 & 6.2
  **Host:** DEC VAX-11, VAXstation, MicroVAX, VAX 6000, VAX 8000, VAX 9000 Series of computers (under VMS 5.0, 5.2, & 5.3)
  **Target:** Cyclone CVME 48; Force CPU 21, CPU 29, CPU 30, CPU 31, CPU 32, CPU 37; Heurikon HK68/V2Fb Series, HK68/V30 Series, HK68/V3E Series; Matrix MS-CPU220, MS-CPU320, & MS-CPU330; Mizar MZ7122, MZ7124, MZ7130, MZ8120, & MZ8130; Motorola MVME133 Series, MVME134, MVME135, & MVME147 Series; Radstone CPU-2A; & Tadpole TP32V (bare machine)

* Compiler Vendor: Veridix Corporation
  **Compiler Type:** Base
  **Validation Certificate #:** 9007826W1.11094
  **Compiler Name:** VADS VAX/VMS 5.2 => Intel 80386/WEITEK 3167, VAda-110-03315, Version 6.0
  **Host:** MicroVAX 3100 (under VMS Version 5.2)
  **Target:** Intel i386 386/116 using a WEITEK 3167 fpu (bare machine)
Ada PROCESSORS, Continued

* Compiler Vendor: Verdix Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 2/3/92
  Validation Certificate #: 901129W1.11064 (BASE)
  Compiler Name: VADS VAX/VMS 5.3 => Intel 80386/WEITEK 3167, VAX-11/03315, Version 6.0
  Host: DEC VAX-11, VAXserver, VAXstation, MicroVAX, VAX 6000, VAX 8000 & VAX 9000 Series of computers (under VMS 5.3)
  Target: Intel iSBC 386/116 using a WEITEK 3167 fpu (bare machine)

* Compiler Vendor: Verdix Corporation
  Compiler Type: Base
  Validation Certificate #: 901129W1.11095
  Compiler Name: VADS UNIX System V/386, Rel. 4, VAda-110-3232, Version 6.0
  Host: Intel 302 System (under UNIX System V/386, Release 4)
  Target: Same as Host

* Compiler Vendor: Verdix Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 4/30/92
  Validation Certificate #: 901129W1.11095 (BASE)
  Compiler Name: VADS UNIX System V/486, Rel. 4, VAda-110-3232, Version 6.0
  Host: NCR 3000, 3320, 3335, 3345, 3445, 3447, 3450, & 3550 (under UNIX System V/486, Release 4)
  Target: Any Host

* Compiler Vendor: Verdix Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 8/20/92
  Validation Certificate #: 901129W1.11095 (BASE)
  Compiler Name: VADS UNIX System V/486, Rel.4, VAda-110-3232, Version 6.0
  Host: NCR 3000, 3320, 3335, 3345, 3445, 3447, 3450, & 3550 (under NCR UNIX System V, Release 4.0); AST Premium 486/33 (under UNIX System V/486, Release 4.0)
  Target: Any Host

* Compiler Vendor: Verdix Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 11/17/93
  Validation Certificate #: 901129W1.11095 (BASE)
  Compiler Name: VADS UNIX System V/386/486, VAda-110-3232, Versions 6.0, 6.1, & 6.2
  Host: Any computer that executes the Intel 80386 or 80486 instruction set (under NCR UNIX System V Release 4.0, UNIX System V/486 Release 4.0, 486 Sunsoft Interactive UNIX Release 4.0, 486 Interactive UNIX Release 3.01R3.2)
  Target: Same as Host

* Compiler Vendor: Verdix Corporation
  Compiler Type: Base
  Validation Certificate #: 901129W1.11096
  Compiler Name: VADS Sequent Balance DYNIX V3.0, VAda-110-2323, Version 6.0
  Host: Sequent Balance 8000 (under DYNIX Version 3.0)
  Target: Same as Host

* Compiler Vendor: Verdix Corporation
  Compiler Type: Base
  Validation Certificate #: 901129W1.11097
  Compiler Name: VADS Sun4 => 68K, Sun OS 4.0, VAda-110-40125, Version 6.0
  Host: Sun-4/260 (under SunOS 4.0)
  Target: Motorola MVME147 (68030) (bare machine)

* Compiler Vendor: Verdix Corporation
  Compiler Type: Base
  Validation Certificate #: 901129W1.11098
  Compiler Name: VADS Sun4 => Sun-3, Sun OS 4.0, VAda-110-4013, Version 6.0
  Host: Sun-4/260 (under SunOS 4.0)
  Target: Sun-3/260 (under SunOS 4.0)

* Compiler Vendor: Verdix Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 6/18/91
  Validation Certificate #: 901129W1.11097 (BASE)
  Compiler Name: VADS Sun4 => 68K, Sun OS 4.0, VAda-110-40125, Version 6.0
  Host: Sun-4/20, /65, /110 & /150; SPARCserver 330, 370, 390, 470 & 490; SPARCstation SLC, 1, 1+, 2, 330 & 370; and SPARCengine 1 VME (under SunOS 4.1)
  Target: Cyclone CVME 44, CVME 46 & CVME 48; Force CPU 21, CPU 29, CPU 30, CPU 31, CPU 32, CPU 37 & Golden Triangle Firepower; Heurikon HK68/V30 Series, V2E Series & V2F Series; Integrated Solutions VME68K20, VME68K30, VME68225 & VME6825 & Liberty GR, SBC; Matrix MS-CPU220 & MS-CPU320; Mizar MZ7120, MZ7122, MZ7124, MZ7130, MZ8120, MZ8130, Sun Microsystems 3E Board Set; Motorola MVME110 (MC68000), MVME133 Series, MVME134, MVME135 & MVME136 (MC68020), MVME147 Series & MVME141 (MC68030), MVME165 & MVME167 (MC68040); & Tadpole TP32V & TP33M (bare machines)

* Compiler Vendor: Verdix Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 10/9/92
  Validation Certificate #: 901129W1.11097 (BASE)
  Compiler Name: VADS Sun4 => 68K, Sun OS 4.1, VAda-110-40125, Version 6.0
  Host: Sun Microsystems Sun-4, SPARCserver, SPARCstation, & SPARCengine computer families (under SunOS 4.1)
  Target: Cyclone CVME 44, CVME 46 & CVME 48; Force CPU 21, CPU 29, CPU 30, CPU 31, CPU 32, CPU 37 & Golden Triangle Firepower; Heurikon HK68/V30 Series, V2E Series & V2F Series; Integrated Solutions VME68K20, VME68K30, VME68225 & Liberty GR, SBC; Matrix MS-CPU220 & MS-CPU320; Mizar MZ7120, MZ7122, MZ7124, MZ7130, MZ8120, MZ8130 & MVME133 Series, MVME134, MVME135, & MVME147 Series; Sun Microsystems 3E Board Set; & Tadpole Technology TP32V & TP33M (bare machines)

* Compiler Vendor: Verdix Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 6/18/91
  Validation Certificate #: 901129W1.11098 (BASE)
  Compiler Name: VADS Sun-4 => Sun-3, Sun OS 4.0, VAda-110-4013, Version 6.0
  Host: Sun-4/20, /65, /110, /150, /260 & /280; SPARCserver 330, 370, 390, 470 & 490; SPARCstation SLC, 1, 1+, 2, 330 & 370; and SPARCengine 1 VME (under SunOS 4.1)
  Target: Sun-3/30, /60, /80, /150, /150, /260, /280, /470 & /480 (under SunOS 4.1)

* Compiler Vendor: Verdix Corporation
  Compiler Type: Base
  Validation Certificate #: 901129W1.11099
  Compiler Name: VADS AT&T 3B2/600G UNIX System V, Release 3.2.2, VAda-110-5151, Version 8.0
  Host: AT&T 3B2/600G (under UNIX System V, Release 3.2.2)
  Target: Same as Host

* Compiler Vendor: Verdix Corporation
  Compiler Type: Base
  Validation Certificate #: 901129W1.11100
  Compiler Name: VADS HP-9000/300 => 68K, HP-UX 7.0, VAda-110-15125, Version 6.0
  Host: HP 9000 Model 350 (under HP-UX 7.0)
  Target: Motorola MVME133A (68020) (bare machine)
* Compiler Vendor: Verdix Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 11/24/93
  Validation Certificate #: 001129W.11101 (BASE)
  Compiler Name: VADS HP-9000/300 => 68K, HP-UX 7.0, VAda-110-15125, Version 6.0
  Host: Hewlett-Packard HP 9000 Series 300 (under HP-UX 7.0 & 8.0)
  Target: Cyclone CVME 48; CPU 21, CPU 29, CPU 30, CPU 31, CPU 32, CPU 37; Heurikon HK68/V2F Series, HK68/V30 Series, HK68/36U Series; Matrix MS-CPU220 & MS-CPU320, Mizar MZ7122, MZ7124, MZ7130, MZ8130; Sun Microsystems 3E, Board Set; Motorola MVME147 Series (MC68030), MVME133 Series, MVME134 & MVME135 (MC68020); Tadpole TP-32V & TP-33M (bare machines)

* Compiler Vendor: Verdix Corporation
  Compiler Type: Base
  Validation Certificate #: 001129W.11101
  Compiler Name: VADS BCS/88K, Avion DGUX 4.3, VAda-110-8080, Version 6.1
  Host: Data General AVIION Model 5120 (under DG/UX 4.3)
  Target: Same as Host

* Compiler Vendor: Verdix Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 7/21/91
  Validation Certificate #: 001129W.11101 (BASE)
  Compiler Name: VADS BCS/88K, Avion DGUX 4.3, VAda-110-8080, Version 6.1
  Host: DG AVION Models 4000, 4000GHL, 4020, 4100, 4120, 5010, 5200, 5220, 5240, 5300, 5310, 5400, 5402, 5410, 5412, 6200 & 6220 (under DG/UX 4.3)
  Target: Any Host

* Compiler Vendor: Verdix Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 8/28/91
  Validation Certificate #: 001129W.11101 (BASE)
  Compiler Name: VADS BCS/88K Avion DGUX 5.4, VAda-110-8080, Version 6.1
  Host: Data General AVIION Models 4000, 4000GHL, 4020, 4100, 4120, 5010, 5200, 5220, 5240, 5300, 5310, 5400, 5402, 5410, 5412, 6200 & 6220; MODCOMP Real Star Family (under DG/UX 5.4)
  Target: Any Host

* Compiler Vendor: Verdix Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 2/3/92
  Validation Certificate #: 001129W.11101 (BASE)
  Compiler Name: VADS BCS/88K, VAda-110-8080, Version 6.1
  Host: MODCOMP Real Star Family (under REAL/IX C.0.2)
  Target: Any Host

* Compiler Vendor: Verdix Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 3/30/92
  Validation Certificate #: 001129W.11101 (BASE)
  Compiler Name: VADS BCS/88K, VAda-110-8080, Version 6.1
  Host: Motorola 8000 Delta Series (MC88000), all models (under Unix System V/88, R32V3)
  Target: Any Host

* Compiler Vendor: Verdix Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 2/28/94
  Validation Certificate #: 001129W.11101 (BASE)
  Compiler Name: VADS BCS/88K, Avion DGUX 4.3, VAda-110-8080, Versions 6.1 & 8.2
  Host: Data General AVIION computer series (under DG/UX 4.3 & 5.4)
  Target: Any Host

* Compiler Vendor: Verdix Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 8/18/91
  Validation Certificate #: 001129W.11102 (BASE)
  Compiler Name: VADS Sun4 & SPARC, Sun OS 4.1, VAda-110-40440, Version 6.0
  Host: Sun-4/400 (under SunOS 4.1)
  Target: SPARCengine 1E (bare machine)

* Compiler Vendor: Verdix Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 11/24/93
  Validation Certificate #: 001129W.11102 (BASE)
  Compiler Name: VADS Sun4 & SPARC, Sun OS 4.1, VAda-110-40440, Version 6.0
  Host: Sun-4/20, /65, /110, /150 & /260; SPARCserver 330, 370, 390, 470 & 490; and SPARCstation SLC, 1, 1+, 2, 330 & 370 (under SunOS 4.1)
  Target: SPARCengine 1E & Ironics IV-SPARC-33A (bare machines)

* Compiler Vendor: Verdix Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 11/24/93
  Validation Certificate #: 001129W.11102 (BASE)
  Compiler Name: VADS Sun4 & SPARC, Sun OS 4.1, VAda-110-40440, Version 6.0 & 6.1
  Host: Sun Microsystem Sun-4, SPARCstation, & SPARCserver computer families (under SunOS 4.0, 4.1, & 4.2)
  Target: SPARCengine 1E & Ironics IV-SPARC-33A (bare machines)

* Compiler Vendor: Verdix Corporation
  Compiler Type: Base
  Validation Certificate #: 910517W.111149
  Compiler Name: VADS Sun-3 SunOS => 68K, VAda-110-13140, Version 6.0
  Host: Sun 3/320 (under SunOS Release 4.0)
  Target: Motorola MVME165 (68040) (bare machine)

* Compiler Vendor: Verdix Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 2/4/92
  Validation Certificate #: 910517W.111149 (BASE)
  Compiler Name: VADS Sun-3 SunOS => 68K, VAda-110-13140, Version 6.0
  Host: Sun Microsystems Sun-3 computer family (under SunOS 4.1)
  Target: Motorola MVME165 (MC68040) (bare machine)

* Compiler Vendor: Verdix Corporation
  Compiler Type: Base
  Validation Certificate #: 910517W.111150
  Compiler Name: VADS DEC-RISC => MIPS R3000, VAda-110-61820, Version 6.1
  Host: DECSation 5000-200 (under ULTRIX V4.0)
  Target: Lockheed Sanders STAR MVP (R3000) (bare machine)
* Compiler Vendor: Verdix Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 2/4/92
  Validation Certificate #: 910517W1.11150 (BASE)
  Compiler Name: VADS DEC-RISC => MIPS R3000, VAda-110-61620,
  Version 6.1
  Host: DECstation & DECsystem computer families (under ULTRIX 4.0)
  Target: Lockheed Sanders STAR MVP (R3000) (bare machine)

* Compiler Vendor: Verdix Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 12/21/93
  Validation Certificate #: 910517W1.11151 (BASE)
  Compiler Name: VADS VMS => MIPS R3000, VAda-110-03620, Ver 6.1
  Host: MicroVAX 3600 (under VMS V5.2)
  Target: Integrated Device Technology IDT7RS302 (bare machine)

* Compiler Vendor: Verdix Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 2/4/92
  Validation Certificate #: 910517W1.11151 (BASE)
  Compiler Name: VADS VAX/VMS => MIPS R3000, VAda-110-03620, Ver 6.1
  Host: DEC VAX-11, VAXserver, VAXstation, MicroVAX, VAX 6000,
  VAX 8000 & VAX 9000 Series of computers (under VMS 5.3)
  Target: Integrated Device Technology IDT7RS302 (bare machine)

* Compiler Vendor: Verdix Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 12/21/93
  Validation Certificate #: 910517W1.11151 (BASE)
  Compiler Name: VADS VAX/VMS => MIPS R3000, VAda-110-03620,
  Versions 6.1 & 6.2
  Host: DEC VAX-11, VAXserver, VAXstation, MicroVAX, VAX 6000,
  VAX 8000 & VAX 9000 Series of computers (under VMS 5.0, 5.2 & 5.3)
  Target: Heurikon HKMIPS/3500; LSI Logic LR33000/LR33050 Pocket
  Rocket; any MIPS R2000-based & R3000-based computers;
  Omnibyte VR3000; and Pulsar 3000 (bare machine)

* Compiler Vendor: Verdix Corporation
  Compiler Type: Base
  Date of Validation by Registration: 2/4/92
  Validation Certificate #: 910517W1.11150 (BASE)
  Compiler Name: VADS Sun-4 SunOS => 68k, VAda-110-40140, Version 6.0
  Host: Sun 4/280 (under SunOS Release 4.0)
  Target: Motorola MVME165 (68040) (bare machine)

* Compiler Vendor: Verdix Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 2/4/92
  Validation Certificate #: 910517W1.11152 (BASE)
  Compiler Name: VADS Sun-4 SunOS => 68k, VAda-110-40140, Version 6.0
  Host: Sun Microsystems Sun-4, SPARCserver & SPARCstation
  computer families (under SunOS 4.1)
  Target: Motorola MVME165 (68040) (bare machine)

* Compiler Vendor: Verdix Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 11/18/93
  Validation Certificate #: 910517W1.11151 (BASE)
  Compiler Name: VADS Sun-4 SunOS => 68040, VAda-110-40140,
  Versions 6.0 & 6.2
  Host: Sun Microsystems Sun-4, SPARCserver, & SPARCstation
  computer families (under SunOS 4.0, 4.1, & 4.2)
  Target: TADpole TP41V

* Compiler Vendor: Verdix Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 2/4/92
  Validation Certificate #: 910517W1.11154 (BASE)
  Compiler Name: VADS 68000 => 68k, VAda-110-61680, Ver 6.1
  Host: DECstation 2100 (under ULTRIX V4.0)
  Target: Motorola MVME181 (bare machine)

* Compiler Vendor: Verdix Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 1/25/94
  Validation Certificate #: 910517W1.11153 (BASE)
  Compiler Name: VADS DEC-RISC => 68k, VAda-110-61680,
  Versions 6.1 & 6.2
  Host: DECstation & DECsystem computer families (under
  ULTRIX 4.0)
  Target: Motorola MVME181 (88000) (bare machine)

* Compiler Vendor: Verdix Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 2/4/92
  Validation Certificate #: 910517W1.11154 (BASE)
  Compiler Name: VADS SunOS => 68k, VAda-115-40800, Ver 2.0
  Host: Sun 4/20 (under SunOS 4.1.1)
  Target: Motorola MVME147SA (bare machine, using vxWorks 5.0)

* Compiler Vendor: Verdix Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 1/25/94
  Validation Certificate #: 910517W1.11154 (BASE)
  Compiler Name: VADS 68000 => 68k, VAda-115-40800, Ver 2.0
  Host: Sun Microsystems Sun-4 => 68k, VAda-110-40800, Ver 2.0
  Target: Force CPU 21, CPU 29, CPU 30, CPU 31, CPU 32, CPU 33,
  CPU 37, & Golden Triangle Firepower; General Microsystems
  GMS/17 & GMSV37; Heurikon HK86/V20, /V2E, /V2F, /V2FA,
  /V30, /V30E, /V3E, & /V1F; Ironics IV-3201, 3204A, 3220, &
  3230; Matrix MS-CPU320; Mizar MZ7122 & MZ7124; Motorola
  MVME133 Series, MVME135 MVME135A, MVME141, MVME143, MVME147;
  Radstone PME 68-25 & 68-31; SBE VLAN-e & VPU30; Sun Microsystems
  3E; & TADpole Technology TP32V-4MB (bare machines, using vxWorks 5.0)

* Compiler Vendor: Verdix Corporation
  Compiler Type: Base
  Validation Certificate #: 910517W1.11155
  Compiler Name: VADS UNIX System V/486, SCO UNIX 3.2,
  VAda-110-3232, Version 6.0
  Host: Zenith Z-486/2SE (under SCO UNIX 386 release 3.2)
  Target: Same as Host
Ada PROCESSORS, Continued

* Compiler Vendor: Veridex Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 7/31/91
  Validation Certificate #: 910517W1.11155 (BASE)
  Compiler Name: VADS UNIX System V/486, SCO UNIX 3.2
  VAda-110-3232, Version 6.0
  Host: Sun (under SCO UNIX I386 release 3.2)
  Target: Same as Host

* Compiler Vendor: Veridex Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 8/20/92
  Validation Certificate #: 910517W1.11155 (BASE)
  Compiler Name: VADS 386/486 System V, Rel. 3.2, VAda-110-3232, Version 6.0
  Host: Any computer system comprising: CPU; any that executes the Intel 80386 or 80486 instruction set (under Any operating system compatible with Unix System V Release 3.2)
  Target: Same as Host

* Compiler Vendor: Veridex Corporation
  Compiler Type: Base
  Date of Validation by Registration: 11/18/93
  Validation Certificate #: 910517W1.11156 (BASE)
  Compiler Name: VADS Sun 4 SunOS => AMD 5K, 6.0
  VAda-110-40525, Version 6.0
  Host: Sun 4/280 (under SunOS 4.0.3)
  Target: Ironics IV9001 board (AMD 29000) (bare machine)

* Compiler Vendor: Veridex Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 2/4/92
  Validation Certificate #: 910517W1.11156 (BASE)
  Compiler Name: VADS Sun4 SunOS => AMD 2K, VAda-110-40525, Version 6.0
  Host: Sun Microsystems Sun-4, SPARCstation & SPARCserver computer families (under SunOS 4.1)
  Target: Ironics IV9001 board (AMD 29000) (bare machine)

* Compiler Vendor: Veridex Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 12/21/92
  Validation Certificate #: 910517W1.11156 (BASE)
  Compiler Name: VADS IBM RISC System/6000 => 68K, VAda-110-71125, Versions 6.0, 6.1, & 6.2
  Host: Sun Microsystems Sun-4, SPARCstation, & SPARCserver series of computers (under SunOS 4.0, 4.1, & 4.2)
  Target: Ironics IV9001 board (AMD 29000) (bare machine)

* Compiler Vendor: Veridex Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 12/31/92
  Validation Certificate #: 910517W1.11156 (BASE)
  Compiler Name: VADS Sun-4 SunOS => AMD 2K, VAda-110-40525, Version 6.0, 6.1, & 6.2
  Host: Sun Microsystems Sun-4, SPARCstation, & SPARCserver series of computers (under SunOS 4.0, 4.1, & 4.2)
  Target: Ironics IV9001 board (AMD 29000) (bare machine)

* Compiler Vendor: Veridex Corporation
  Compiler Type: Base
  Date of Validation by Registration: 8/20/92
  Validation Certificate #: 910517W1.11157 (BASE)
  Compiler Name: VADS UNIX System V/486, SCO UNIX 3.2, VAda-110-3232, Version 6.1
  Host: Intel 402 (under SCO UNIX 3.2v2.e)
  Target: Same as Host

* Compiler Vendor: Veridex Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 11/19/93
  Validation Certificate #: 910517W1.11157 (BASE)
  Compiler Name: VADS UNIX System V/486, SCO UNIX 3.2, VAda-110-3232, Version 6.1
  Host: Any computer system comprising: CPU; any that executes the Intel 80386 or 80486 instruction set (under SF/ODT w/1.1 & v2 R3.1, NCR UNIX System V Release 4.0, and UNIX System V/486 Rel 4.0)
  Target: Same as Host

* Compiler Vendor: Veridex Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 11/22/93
  Validation Certificate #: 910517W1.11157 (BASE)
  Compiler Name: VADS HP 9000/300, VAda-110-1515, Version 6.0
  Host: Hewlett-Packard HP 9000 Series 300 (under HP-UX 7.0)
  Target: Any Host

* Compiler Vendor: Veridex Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 6/27/94
  Validation Certificate #: 910517W1.11157 (BASE)
  Compiler Name: VADS 386/488, VAda-110-3232, Version 6.2
  Host: Any computer that executes the Intel 80486 instruction set (under SCO UNIX 3.2v4.2)
  Target: Same as Host

* Compiler Vendor: Veridex Corporation
  Compiler Type: Base
  Validation Certificate #: 910920W1.11200
  Compiler Name: VADS MIPS, VAda-110-6262, Version 6.1
  Host: MIPS R13200 (under RISC/os 4.52)
  Target: Same as Host

* Compiler Vendor: Veridex Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 12/21/93
  Validation Certificate #: 910920W1.11200
  Compiler Name: VADS MIPS, VAda-110-6262, Version 6.1
  Host: MIPS R13200 & RC4xxx series of computers (under RISC/os 4.5)
  Target: Any Host

* Compiler Vendor: Veridex Corporation
  Compiler Type: Base
  Validation Certificate #: 910920W1.11201
  Compiler Name: VADS VAX/VMS => 88040, VAda-110-03140, Ver 6.0
  Host: MicroVAX 3100 (under VMS 5.3)
  Target: Motorola MVME165 (88040) (bare machine)
* Compiler Vendor: Verdict Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 2/10/92
  Validation Certificate #: 910920W1.11201 (BASE)
  Compiler Name: VADS VAX/VMS => 88040, VAda-110-03140, Ver 6.0
  Host: DEC VAX-11, VAXserver, VAXstation, MicroVAX, VAX 6000,
  VAX 8000, & VAX 9000 series of computers (under VMS 5.3)
  Target: Motorola MVME165 (68040) (bare machine)

* Compiler Vendor: Verdict Corporation
  Compiler Type: Base
  Validation Certificate #: 910920W1.11202
  Compiler Name: VADS IBM RS/6000 => MIPS R3000,
  VAda-110-71620, Version 6.1
  Host: IBM RISC System/6000 Model 530 (under AIX 3.1)
  Target: IDT 7RS302 (R3000) (bare machine)

* Compiler Vendor: Verdict Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 12/21/93
  Validation Certificate #: 910920W1.11202 (BASE)
  Compiler Name: VADS IBM RS/6000 => MIPS R3000,
  VAda-110-71620, Versions 6.1 & 6.2
  Host: IBM RISC/System 6000 Series of computers (under AIX 3.1 &
  3.2)
  Target: Heurikon HKMIPS/V3500; LSI Logic LR33000/LR33050 Pocket
  Rocket, any MIPS R2000-based & R3000-based computers;
  Omnibyte VR3000; & Pulsar 3000 (bare machines)

* Compiler Vendor: Verdict Corporation
  Compiler Type: Base
  Validation Certificate #: 910920W1.11205
  Compiler Name: VADS Sun-4 => MIPS R3000, VAda-110-40620,
  Version 6.1
  Host: SPARCserver 490 (under SunOS Release 4.1)
  Target: LSI LR33000 Pocket Rocket Evaluation board (R3000) (bare
  machine)

* Compiler Vendor: Verdict Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 2/10/92
  Validation Certificate #: 910920W1.11205 (BASE)
  Compiler Name: VADS Sun-4 => MIPS R3000, VAda-110-40620,
  Version 6.1
  Host: Sun Microsystems Sun-4, SPARCserver, & SPARCstation
  computer families (under SunOS 4.1)
  Target: LSI LR33000 Pocket Rocket Evaluation board (R3000) (bare
  machine)

* Compiler Vendor: Verdict Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 12/21/93
  Validation Certificate #: 910920W1.11205 (BASE)
  Compiler Name: VADS Sun-4 => MIPS R3000, VAda-110-40620,
  Version 6.1
  Host: Sun Microsystems Sun-4, SPARCserver, & SPARCstation
  computer families (under SunOS 4.1)
  Target: LSI LR33000 Pocket Rocket Evaluation board (R3000) (bare
  machine)

* Compiler Vendor: Verdict Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 2/10/92
  Validation Certificate #: 910920W1.11205 (BASE)
  Compiler Name: VADS Sun-4 => MIPS R3000, VAda-110-40620,
  Version 6.1 & 6.2
  Host: Sun Microsystems Sun-4, SPARCserver, & SPARCstation
  computer families (under SunOS 4.1 & 4.2)
  Target: Heurikon HKMIPS/V3500; LSI Logic LR33000/LR33050 Pocket
  Rocket, any MIPS R2000-based & R3000-based computers;
  Omnibyte VR3000; & Pulsar 3000 (bare machines)

* Compiler Vendor: Verdict Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 2/10/92
  Validation Certificate #: 910920W1.11206
  Compiler Name: VADS Sun-4 SunOS => MC68000/10,
  VAda-110-40128, Version 6.0
  Host: Sun-4/280 (under SunOS Release 4.0.3)
  Target: Motorola MVME101 (68000) with MVME222-1 memory board
  (bare machine)

* Compiler Vendor: Verdict Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 2/10/92
  Validation Certificate #: 910920W1.11206 (BASE)
  Compiler Name: VADS Sun-4 => MC68000/10, VAda-110-40128,
  Version 6.0
  Host: Sun Microsystems Sun-4, SPARCserver, & SPARCstation
  computer families (under SunOS 4.1)
  Target: Motorola MVME101 (68000) with MVME222-1 memory board
  (bare machine)

* Compiler Vendor: Verdict Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 3/30/92
  Validation Certificate #: 910920W1.11206
  Compiler Name: VADS Sun-4 => MC68000/10, SunOS 4.1,
  VAda-110-40128, Versions 6.0, 6.1, & 6.2
  Host: Sun Microsystems Sun-4, SPARCserver, SPARCstation,
  & SPARCengine computer families (under SunOS 4.1)
  Target: Motorola MVME101, Motorola 68302, Philips-Signetics 68070,
  & Toshiba 68301 single-board computers (bare machines)

* Compiler Vendor: Verdict Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 12/21/93
  Validation Certificate #: 910920W1.11207
  Compiler Name: VADS Sun-4 SunOS => CPU32, VAda-110-40150,
  Version 6.0
  Host: Sun-4/280 (under SunOS Release 4.0.3)
  Target: Motorola CPU32 - M68332EVS Evaluation System (68332)
  (bare machine)

* Compiler Vendor: Verdict Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 2/10/92
  Validation Certificate #: 910920W1.11207
  Compiler Name: VADS Sun-4 SunOS => CPU32, VAda-110-40150,
  Version 6.0
  Host: Sun Microsystems Sun-4, SPARCserver, & SPARCstation
  computer families (under SunOS 4.1)
  Target: Motorola CPU32 - M68332EVS Evaluation System (68332)
  (bare machine)

* Compiler Vendor: Verdict Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 3/30/92
  Validation Certificate #: 910920W1.11207 (BASE)
  Compiler Name: VADS Sun-4 SunOS => CPU32, VAda-110-40150,
  Version 6.0
  Host: Sun Microsystems Sun-4, SPARCserver, SPARCstation,
  & SPARCengine computer families (under SunOS 4.1)
  Target: Motorola CPU32-68331, -68333, & -68340 Evaluation Systems
  (bare machines)
Ada PROCESSORS, Continued

* Compiler Vendor: Veridex Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 12/21/93
  Validation Certificate #: 910920W1.11207
  Compiler Name: VADS Sun-4 => CPU32, SunOS, VAda-110-40150, Versions 6.0 & 6.2
  Host: Sun Microsystems Sun-4, SPARCstation, & SPARCserver computer families (under SunOS 4.0, 4.1, & 4.2)
  Target: Motorola CPU32-63331, -63332, & -63400 Evaluation Systems (bare machines)

* Compiler Vendor: Veridex Corporation
  Compiler Type: Base
  Validation Certificate #: 910920W1.11208
  Compiler Name: VADS IBM PS/2, AIX 1.1, VAda-110-3535, Version 6.1
  Host: IBM PS/2 Model 80 (under AIX 1.1)
  Target: Same as Host

* Compiler Vendor: Veridex Corporation
  Compiler Type: Base
  Validation Certificate #: 910920W1.11209
  Compiler Name: VADS MIPS => MIPS R3000, VAda-110-62620, V 6.1
  Host: MIPS RC3230 (under RISC/OS 4.5)
  Target: Lockheed Sanders STAR MVP (R3000) (bare machine)

* Compiler Vendor: Veridex Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 12/21/93
  Validation Certificate #: 910920W1.11210
  Compiler Name: VADS Sun-3 SunOS => 68020/30 ARTX, VAda-110-13120, Version 6.0
  Host: Sun-3/260 (under SunOS Release 4.0)
  Target: Motorola MVME147 (58030) (bare machine)

* Compiler Vendor: Veridex Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 3/6/92
  Validation Certificate #: 910920W1.11210 (BASE)
  Compiler Name: VADS Sun3 SunOS => 68020/30 ARTX, VAda-110-13120, Version 6.0
  Host: Sun Microsystems Sun-3 computer family (under SunOS 4.1)
  Target: Cyclone CVME 44, CVME 46 & CVME 48; Force CPU 21, CPU 29, CPU 30, CPU 31, CPU 32, CPU 37 & Golden Triangle Firepower; Heurikon HKMIPS/V350; LSI Logic L33000/L33005 Pocket Rocket; any MIPS R2000-based & R3000-based computers; Omnibyte VR3000, & Pulsar 3000 (bare machines)

* Compiler Vendor: Veridex Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 2/10/92
  Validation Certificate #: 910920W1.11214
  Compiler Name: VADS IBM RISC System/6000 AIX => 68020/30 ARTX, VAda-110-71120, Version 6.0
  Host: IBM RISC System/6000 Model 530 (under AIX 3.1)
  Target: Motorola MVME147 (58030) (bare machine)

* Compiler Vendor: Veridex Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 3/6/92
  Validation Certificate #: 910920W1.11221
  Compiler Name: VADS IBM RISC System/6000 AIX => 68020/30 ARTX, VAda-110-90000, Version 6.1
  Host: Okidata i860 Workstation (under UNIX System V/860 RELEASE 4 v1.0)
  Target: Same as Host

* Compiler Vendor: Veridex Corporation
  Compiler Type: Base
  Validation Certificate #: 910920W1.11214
  Compiler Name: VADS VMS => AMD29000, VAda-110-40355, Version 6.0
  Host: MicroVAX 3000 (under VMS 5.2)
  Target: Ironics 7800 board (AMD 29000) (Am29000 bare VME machine)

* Compiler Vendor: Veridex Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 2/10/92
  Validation Certificate #: 910920W1.11214
  Compiler Name: VADS VAX VMS => AMD 29K, VAda-110-40355, Version 6.0
  Host: DEC VAX-11, VXServer, VXStation, MicroVAX, VAX 6800, VAX 8000, & VAX 9000 Series of computers (under VMS 5.3)
  Target: Ironics 7800 board (AMD 29000) (Am29000 bare VME machine)
Ada PROCESSORS, Continued

* Compiler Vendor: Verdix Corporation
  Compiler Type: Base
  Validation Certificate #: 910920W1.11215
  Compiler Name: VADS Sun-3 SunOS => AMD 29K, VADA-110-13525, Version 6.04
  Host: Sun-3/180 (under SunOS 4.1.1)
  Target: Ironics IV9001 board (AMD 29000) (Am29000 bare VME machine)

* Compiler Vendor: Verdix Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 2/10/92
  Validation Certificate #: 910920W1.11215 (BASE)
  Compiler Name: VADS Sun-3 SunOS => AMD 29K, VADA-110-13525, Version 6.04
  Host: Sun Microsystems Sun-3 computer family (under SunOS 4.1)
  Target: Ironics IV9001 board (AMD 29000) (Am29000 bare VME machine)

* Compiler Vendor: Verdix Corporation
  Compiler Type: Base
  Validation Certificate #: 920513W1.11252
  Compiler Name: VADS AT&T 3B2/600GR UNIX System V, Release 4.0, VADA-110-6363, Version 6.1
  Host: AT&T 3B2/600GR (under UNIX System V, Release 4.0)
  Target: Same as Host

* Compiler Vendor: Verdix Corporation
  Compiler Type: Base
  Validation Certificate #: 920513W1.11253
  Compiler Name: VADS IBM RISC System/6000 => IBM RISC System/6000, Vada-110-71710, Version 6.2
  Host: IBM RISC System/6000 Model 530 (under AIX 3.2)
  Target: IBM RISC System/6000 Model 320 (bare machine)

* Compiler Vendor: Verdix Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 12/1/93
  Validation Certificate #: 920513W1.11253 (BASE)
  Compiler Name: VADS IBM RISC System/6000, VADA-110-71710, Version 6.2
  Host: IBM RISC System/6000 ser of computers (under AIX 3.1 & 3.2)
  Target: Any Host

* Compiler Vendor: Verdix Corporation
  Compiler Type: Base
  Validation Certificate #: 920513W1.11254
  Compiler Name: VADS BCS => 86K, VADA-110-80680, Version 6.1
  Host: Motorola 88000 Delta (under RS2V3 920117)
  Target: Motorola MVME187 (68000) (bare machine)

* Compiler Vendor: Verdix Corporation
  Compiler Type: Base
  Validation Certificate #: 920513W1.11256
  Compiler Name: VADS Works Sun4 => 68K, VADA-110-40800, Ver 2.0
  Host: Sun-4/20 (under SunOS 4.1.1)
  Target: Motorola MVME167A (68040) (bare machine, using VxWorks 5.0)

* Compiler Vendor: Verdix Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 11/9/93
  Validation Certificate #: 920513W1.11256 (BASE)
  Compiler Name: VADS Works Sun4 => 68K, VADA-110-40800, Ver 2.0
  Host: Sun Microsystems Sun-4, SPARCserver, & SPARCStation computer families (under SunOS 4.0, 4.1, & 4.2)
  Target: DY 4 Systems SVME-144; Force CPU-40 Series; Motorola MVME162, MVME165, MVME167, & MVME167A; PEP Modular Computer VM40; and Tadpole TP41V (bare machine, using VxWorks 5.0)

* Compiler Vendor: Verdix Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 2/24/94
  Validation Certificate #: 920513W1.11256 (BASE)
  Compiler Name: VADS Works DEC-RISC => MIPS R3000, VADA-115-61640, Version 2.0
  Host: DECstation 5000/200 (under Ultrix V4.1)
  Target: Lockheed Sanders STAR MVP board (bare machine, using VxWorks 5.0)
Ada PROCESSORS, Continued

* Compiler Vendor: Verdix Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 12/21/93
  Validation Certificate #: 921004W1.11277 (BASE)
  Compiler Name: VADSworks DEC-RISC = MIPS R3000,
  VAda-115-01640, Version 2.0
  Host: DECstation & DECsystem (MIPS-based) computer families
  (under ULTRIX 4.1, 4.2, & 4.3)
  Target: Hewlett-Packard V/9000, V/9000s, V/9000e
  Rocket, any MIPS R2000-based & R3000-based computers;
  Omnibyte VR3000; & Pulsar 3000 (bare machines, using
  VxWorks 5.0 & 5.1))

* Compiler Vendor: Verdix Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 2/22/94
  Validation Certificate #: 921004W1.11278 (BASE)
  Compiler Name: VADS IBM RISC System/6000
  VAda-110-7171, Ver 6.2
  Host: IBM RISC System/6000 models 230 & 570 (under AIX 3.2 &
  AIX BI/CMW)
  Target: Same as Host

* Compiler Vendor: Verdix Corporation
  Compiler Type: Base
  Validation Certificate #: 921004W1.11279
  Compiler Name: VADS IBM RISC System/6000, VAda-110-7171, Ver 6.2
  Host: IBM RISC System/6000 model 220 (under AIX 3.2)
  Target: Same as Host

* Compiler Vendor: Verdix Corporation
  Compiler Type: Base
  Validation Certificate #: 921004W1.11280
  Compiler Name: VADS System V/386/486, VAda-110-3232, Version 6.1
  Host: ASL 486/33 (under UNIX System V, Release 3.2)
  Target: Same as Host

* Compiler Vendor: Verdix Corporation
  Compiler Type: Base
  Validation Certificate #: 921004W1.11281
  Compiler Name: VADS System V/386/486, VAda-110-3232, Version 6.1
  Host: NCR model 3450 (under NCR UNIX SVRA MP-RAS Release 2)
  Target: Same as Host

* Compiler Vendor: Verdix Corporation
  Compiler Type: Base
  Validation Certificate #: 921004W1.11282
  Compiler Name: VADS System V/386/486, VAda-110-3232, Version 6.1
  Host: NCR model 3550 (under NCR UNIX SVRA MP-RAS Release 2)
  Target: Same as Host

* Compiler Vendor: Verdix Corporation
  Compiler Type: Base
  Validation Certificate #: 921004W1.11283
  Compiler Name: VADS System V/386/486, VAda-110-3232, Version 6.1
  Host: NCR model 3550 (under NCR UNIX SVRA MP-RAS Release 2)
  Target: Same as Host

* Compiler Vendor: Verdix Corporation
  Compiler Type: Base
  Validation Certificate #: 921004W1.11284
  Compiler Name: VADS Sun SPARC Solaris 2.1, VAda-110-4040, Ver 6.2
  Host: RDI Britelite IPX Laptop (under Solaris 2.1)
  Target: Same as Host

* Compiler Vendor: Verdix Corporation
  Compiler Type: Base
  Validation Certificate #: 921004W1.11285
  Compiler Name: VADS Sun-4 Solaris 2.1, VAda-110-4040, Version 6.2
  Host: SPARCstation LX 4/30 (under Solaris 2.1)
  Target: Same as Host

* Compiler Vendor: Verdix Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 6/9/93
  Validation Certificate #: 921004W1.11285 (BASE)
  Compiler Name: SPARCCompiler Ada Porting Kit, Version 2.0
  Host: Sun Microsystems Sun-4, SPARCstation, & SPARCserver
  computer families (under Solaris 2.1 & 2.2)
  Target: Any Host

* Compiler Vendor: Verdix Corporation
  Compiler Type: Base
  Validation Certificate #: 921004W1.11286
  Compiler Name: VADS Sun SPARC Solaris 2.1, VAda-110-4040, Ver 6.2
  Host: SPARCstation 10 model 30 (under Solaris 2.1)
  Target: Same as Host

* Compiler Vendor: Verdix Corporation
  Compiler Type: Base
  Validation Certificate #: 921004W1.11287
  Compiler Name: VADS Sun SPARC Solaris 2.1, VAda-110-4040, Ver 6.2
  Host: SPARCstation 10 model 41 (under Solaris 2.1)
  Target: Same as Host

* Compiler Vendor: Verdix Corporation
  Compiler Type: Base
  Validation Certificate #: 921004W1.11288
  Compiler Name: VADS Sun SPARC Solaris 2.1, VAda-110-4040, Ver 6.2
  Host: SPARCstation 10 model 42 (under Solaris 2.1)
  Target: Same as Host

* Compiler Vendor: Verdix Corporation
  Compiler Type: Base
  Validation Certificate #: 921004W1.11289
  Compiler Name: VADS Sun SPARC Solaris 2.1, VAda-110-4040, Ver 6.2
  Host: Sun SPARCserver 600 (under Solaris 2.1)
  Target: Same as Host

* Compiler Vendor: Verdix Corporation
  Compiler Type: Base
  Validation Certificate #: 921004W1.11290
  Compiler Name: VADS MP Sun SPARC Solaris 2.1, VAda-110-4141,
  Version 6.2
  Host: Sun SPARCserver 600 (under Solaris 2.1)
  Target: Same as Host

* Compiler Vendor: Verdix Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 2/23/94
  Validation Certificate #: 921004W1.11290 (BASE)
  Compiler Name: VADS MP Sun SPARC, Solaris 2.0, VAda-110-4141,
  Version 6.2
  Host: Sun Microsystems Sun-4, SPARCserver, & SPARCstation
  computer families (under Solaris 2.0 & 2.1)
  Target: Any Host
Ada PROCESSORS, Continued

* Compiler Vendor: VerdiX Corporation
  Compiler Type: Base
  Validation Certificate #: 921004W1.11291
  Compiler Name: VADS Silicon Graphics Self, VAda-110-6464, Ver 6.2
  Host: Silicon Graphics IRIS 4D/440 (under IRIX 4.0.1)
  Target: Same as Host

* Compiler Vendor: VerdiX Corporation
  Compiler Type: Base
  Validation Certificate #: 921004W1.11292
  Compiler Name: VADS MP Silicon Graphics, VAda-110-6556, Ver 6.2
  Host: Silicon Graphics IRIS 4D/440 (under IRIX 4.0.1)
  Target: Same as Host

* Compiler Vendor: VerdiX Corporation
  Compiler Type: Base
  Validation Certificate #: 930226W1.11311
  Compiler Name: VADSeition HP 9000 series 700 VAda-110-7575, Ver 6.2
  Host: HP 9000/720 (under HP-UX 8.0.7)
  Target: Same as Host

* Compiler Vendor: VerdiX Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 6/27/94
  Validation Certificate #: 930226W1.11311 (BASE)
  Compiler Name: VADSections HP 9000 Series 700/800, VAda-110-7575, Version 6.2
  Host: HP 9000 Series 700 & 800, all models (under HP-UX Versions 8.0 & 9.0, all releases as appropriate)
  Target: Same as Host

* Compiler Vendor: VerdiX Corporation
  Compiler Type: Base
  Validation Certificate #: 930226W1.11312
  Compiler Name: VADSections Sun-4 => MIPS R3000 VAda-115-40640, Version 2.0
  Host: Sun-4/20 (under SunOS Release 4.1.1)
  Target: Heurikon HK/MIPS/3500 (R3000) board (bare machine, using vxWorks 5.0)

* Compiler Vendor: VerdiX Corporation
  Compiler Type: Derived
  Date of Validation by Registration: 11/10/93
  Validation Certificate #: 930226W1.11312 (BASE)
  Compiler Name: VADSections Sun-4 => MIPS R3000 VAda-115-40640, Version 2.0
  Host: Sun Microsystems Sun-4, SPARCstation, & SPARCserver computer families (under SunOS 4.0, 4.1, & 4.2)
  Target: Heurikon HK/MIPS/VS3500 (bare machine, using vxWorks 5.0)

* Compiler Vendor: VerdiX Corporation
  Compiler Type: Base
  Validation Certificate #: 930901W1.11323
  Compiler Name: VADSections Sun-4 => MIPS R3000, VAda-110-42620, Version 6.2
  Host: Sun SPARCstation 2 (under Solaris 2.2)
  Target: Lockheed Sanders STAR MVP (R3000) (bare machine)

* Compiler Vendor: VerdiX Corporation
  Compiler Type: Base
  Validation Certificate #: 930901W1.11324
  Compiler Name: VADSections Sun-4 => MIPS R4000, VAda-110-40630, Version 6.2
  Host: Sun SPARCstation 2 (under Solaris 4.1.2)
  Target: Silicon Graphics Indigo X54000 used as a MIPS R4000 board (bare machine)

* Compiler Vendor: VerdiX Corporation
  Compiler Type: Base
  Validation Certificate #: 930901W1.11325
  Compiler Name: VADSections Sun-4 => PARAGON, VAda-110-40782, Version 6.2
  Host: Sun SPARCstation 2 (under Solaris 4.1.3)
  Target: Intel PARAGON Supercomputer (under OSF/1 Release 1.0.3 Server 1.1 PT10.7.6 (T10.4))

* Compiler Vendor: VerdiX Corporation
  Compiler Type: Base
  Validation Certificate #: 930901W1.11326
  Compiler Name: VADS SYSTEM V/88 RELEASE, VAda-110-8080, Version 6.2
  Host: Motorola Delta 8640 (under UNIX System V/88 Release 4.0)
  Target: Same as Host

* Compiler Vendor: VerdiX Corporation
  Compiler Type: Base
  Validation Certificate #: 930901W1.11327
  Compiler Name: VADS SYSTEM V/88 RELEASE 4, VAda-110-8080, Version 6.2
  Host: Data General AVIGON Model 230 (under DG/UX Release 5.4.2)
  Target: Same as Host

* Compiler Vendor: VerdiX Corporation
  Compiler Type: Base
  Validation Certificate #: 940110W1.11337
  Compiler Name: VADS Windows NT/486, VAda-110-36315, Version 6.2
  Host: CompuDyne 486 (under Windows NT 3.1)
  Target: Same as Host

Compiler Vendor: Wang Laboratories, Inc.
Address: 1 Industrial Avenue
City: Lowell
State: MA
Zip Code: 01851
Contact Name: Phone: (508) 967-7002
E-mail:

* Compiler Vendor: Wang Laboratories, Inc.
  Compiler Type: Base
  Validation Certificate #: 901129W1.11093
  Compiler Name: Wang VAda, Version 5.0.00
  Host: Wang VS 8430 (under Wang VSOS 7.30.02)
  Target: Same as Host

* Compiler Vendor: Wang Laboratories, Inc.
  Compiler Type: Derived
  Date of Validation by Registration: 1/31/91
  Validation Certificate #: 901129W1.11093 (BASE)
  Compiler Name: Wang VAda, Version 5.0.00
  Host: Wang VAda Models: 100 & 300; 5430, 5440, 5450 & 5460; 7010, 7110, 7120, 7150 & 7310; 8220, 8230, 8260, 8430, 8460, 8470 & 8480; and 10050, 10075 & 10100 (under all VS OS versions 7.21.0x & 7.30.xx)
  Target: Same as Host

Compiler Vendor: York Software Engineering Limited
Address: University of York
City: York, YO1 5DD
State: ENGLAND
Contact Name: Ron Pierce
Phone: +44 904 433422
E-mail: yse@minster.york.ac.uk

* Compiler Vendor: York Software Engineering Limited
  Compiler Type: Base
  Validation Certificate #: 901127N1.11073
  Compiler Name: York Ada Compiler Environment (ACE), Release 5
  Host: Intergraph InterPro 3050 Workstation (under CLIX R3.1)
  Target: Same as Host

* Compiler Vendor: York Software Engineering Limited
  Compiler Type: Derived
  Date of Validation by Registration: 12/19/90
  Validation Certificate #: 901127N1.11073 (BASE)
  Compiler Name: York Ada Compiler Environment (ACE), Release 5
  Host: Intergraph Mobile GIS/C2 (under CLIX Release 3.1)
  Target: Same as Host
Ada PROCESSORS, Continued

* Compiler Vendor: York Software Engineering Limited
  Compiler Type: Derived
  Date of Validation by Registration: 12/19/90
  Validation Certificate #: 901127N1.11073 (BASE)
  Compiler Name: York Ada Compiler Environment (ACE), Release 5
  Host: InterPro 125, 225, 340, 360, 2020, 3070, 6040, 6240, 6080 & 6280 (under CLIx Release 3.1)
  Target: Any Host

* Compiler Vendor: York Software Engineering Limited
  Compiler Type: Derived
  Date of Validation by Registration: 12/19/90
  Validation Certificate #: 901127N1.11073 (BASE)
  Compiler Name: York Ada Compiler Environment (ACE), Release 5
  Host: InterView 220 & 3050 (under CLIx Release 3.1)
  Target: Any Host

* Compiler Vendor: York Software Engineering Limited
  Compiler Type: Derived
  Date of Validation by Registration: 12/19/90
  Validation Certificate #: 901127N1.11073 (BASE)
  Compiler Name: York Ada Compiler Environment (ACE), Release 5
  Host: InterAct 220, 2020, 3050, 6040, 6080, 6240 & 6280 (under CLIx Release 3.1)
  Target: Any Host

* Compiler Vendor: York Software Engineering Limited
  Compiler Type: Derived
  Date of Validation by Registration: 12/19/90
  Validation Certificate #: 901127N1.11073 (BASE)
  Compiler Name: York Ada Compiler Environment (ACE), Release 5
  Host: InterServe 200, 300, 2000, 3000, 4200, 5200, 6000, 6105 & 6505 (under CLIx Release 3.1)
  Target: Any Host

* Compiler Vendor: York Software Engineering Limited
  Compiler Type: Derived
  Date of Validation by Registration: 1/27/93
  Validation Certificate #: 901127N1.11073 (BASE)
  Compiler Name: York Ada Compiler Environment (ACE), Release 5
  Host: Intergraph Series 2400 & 6400—all models that use the C400 chip (under CLIx Release 3.1)
  Target: Any Host
## 2.7.4 PASCAL PROCESSORS

<table>
<thead>
<tr>
<th>SUPPLIER</th>
<th>PROCESSOR ID; VSR#; SUBSET; EXPIRY DATE</th>
<th>HARDWARE; OPERATING SYSTEM</th>
<th>OTHER ENVIRONMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Digital Equipment Corporation</td>
<td>DEC Pascal Version 5.1 for OpenVMS VAX Systems NIST-94/2006; Level 0/1; 9/1/95</td>
<td>VAX 6000-540; OpenVMS VAX Version 6.0</td>
<td>VAXt Models 110, 310, 410, 610, 612; 4000 Models 100, 200, 300, 400, 500, 600; 6000 Models 200, 300, 400, 500, 600; 7000 Model 600; 8200, 8250, 8300, 8350, 8500, 8530, 8550, 8600, 8650, 8700, 8800, 8810, 8820, 8830, 8840; 9000 Models 110, 210, 300 series, 400 series; 10000 Models 600 series; VAX-1730, 7/75, 7/80, 7/85; MicroVAX II; 2000, 3100 Models 10/10E, 20/20E, 30, 40, 60, 90; 3300, 3400, 3500, 3600, 3800, 3900; VAXstation II; 2000, 3100 Models 30, 38, 40, 48, 76, 3200, 3500, 3520, 3540, 4000 Models 60, 90, VLC; VAXserver 3100, 3300, 3400, 3500, 3600, 3602, 3800, 3900, 4000 Models 200, 300, 500; 6000 Models 210, 220, 310, 320, 410, 420, 510, 520, 610, 620, 630; OpenVMS VAX, Version 6.0</td>
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<tr>
<td>DEC</td>
<td>DEC Pascal Version 5.1 for DEC OSF/1 AXP Systems; NIST-94/2004; Level 0/1; 9/1/95</td>
<td>DEC 3000 Model 400; DEC OSF/1 AXP Version 2.0 Revision 240</td>
<td>DEC 2000 model 300S AXP, 3000 model 300 AXP, 300L AXP, 400 AXP, 400S AXP, 500 AXP, 500S AXP, 600 AXP, 600S AXP, 800 AXP, 800S AXP; 4000 models 600 AXP series, 710 AXP, 7000 model 600 AXP series; 10000 models 600 AXP series; DEC OSF/1 AXP Version 2.0 Revision 240</td>
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<tr>
<td>DEC</td>
<td>DEC Pascal Version 5.2 for OpenVMS AXP Systems; NIST-94/2005; Level 0/1; 9/1/95</td>
<td>DEC 3000 Model 500; OpenVMS AXP Version 6.1</td>
<td>DEC 2000 models 300S, 500; Digital 2100 A500/600MP; AXPvme 64; DEC 3000 models 300, 300L, 300LX, 300X, 400, 400S, 500, 500S, 500X, 600, 600S, 800, 800S; 4000 models 600 AXP series, 700 series, 7000 model 600 AXP Series; DEC 10000 model 600 AXP series; OpenVMS AXP Version 6.1</td>
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<tr>
<td>Intergraph Corporation</td>
<td>Clipper Pascal Version 1.8.4B; NIST-95/1/1665; Level 0/1; 1/1/96</td>
<td>Clipper Model C400- 2430; CLIX Version 7.5</td>
<td>Clipper C300 and C400; CLIX Version 7.5</td>
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<tr>
<td>Metrowerks, Inc.</td>
<td>Metrowerks Pascal &quot;Bronze&quot; Version 1.0 Release b; NIST-94/1682; Level 0; 10/1/95</td>
<td>Apple Quadra 630; Macintosh OS Version 7 Release 1.2P</td>
<td>Apple Power Book 520, 540; Macintosh OS Version 7.1.1 Apple Quadra 650; Macintosh OS Version 7.1.2</td>
</tr>
<tr>
<td>UNISYS Government Systems</td>
<td>Stony Brook Pascal for Windows NT Version 1.0; NIST-94/21611; Level 0; 11/1/95</td>
<td>Intel Express Server Model XLX8TEFTS for Intel 80486DX266; Microsoft Windows NT Server Version 3.5</td>
<td>Intel Classic R+ Workstation; Microsoft Windows NT Workstation Version 3.5</td>
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<td>Stony Brook Pascal for Windows NT Version 1.0; NIST-94/2162; Level 0; 11/1/95</td>
<td>Intel Express Server Model XLX8TEFTS for Intel Pentium 60 MH; Microsoft Windows NT Server Version 3.5</td>
<td>Intel Classic R+ Workstation; Microsoft Windows NT Workstation Version 3.5</td>
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</tbody>
</table>
## 2.7.5 C Processors

<table>
<thead>
<tr>
<th>SUPPLIER</th>
<th>PROCESSOR ID; VSR #; SUBSET; EXPIRY DATE</th>
<th>HARDWARE; OPERATING SYSTEM</th>
<th>OTHER ENVIRONMENTS</th>
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<tr>
<td>Apple Computer Inc.</td>
<td>CodeWarrior &quot;C&quot; Bronze Version 1.1.1; NIST-94/1681; 10/1/95</td>
<td>Apple Quadra Model 630; Macintosh Operating System Version 7.1.2P</td>
<td>Apple PowerBook 520, 540; Macintosh OS Version 7.1.1 Apple Quadra 650; Macintosh OS Version 7.1.2</td>
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<tr>
<td>AT&amp;T Global Information Systems</td>
<td>NCR C Development Toolkit Release 2; NIST-95/1303; 8/1/96</td>
<td>AT&amp;T System 3000 Model 3445; NCR UNIX SVR4 MP-RAS Release 2</td>
<td>AT&amp;T System 3000 Models 3340, 3345, 3350, 3355, 3406, 3410, 3416-XL, 3430, 3447, 3450, 3455, 3455-XP, 3470, 3475, 3475-XP, 3520, 3525, 3525-XP, 3550, 3555, 3555-XP, 3570, 3575, 3575-XP, 3600; NCR UNIX SVR4 MP-RAS Rel. 2</td>
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<tr>
<td>Digital Equipment Corporation</td>
<td>DEC OSF/1 C Compiler Version 3.0; NIST-94/2007; 9/1/95</td>
<td>DEC 3000 Model 400 AXP; DEC OSF/1 Version 3.0</td>
<td>DEC 2000 models 300 AXP, 500 AXP; 2100 Server A500MP, A600MP; 3000 models 300 AXP, 300L, 300X, 300LX, 400 AXP, 400S, 500 AXP, 500S, 600 AXP, 600S, 800 AXP, 800S, 4000 models 610 AXP, 710; 7000 model 610 AXP; 10000 model 610 AXP; DEC OSF/1 Version 3.0</td>
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<tr>
<td>DEC C for OSF/1 AXP Version 4.0; NIST-94/2008; 9/1/95</td>
<td>DEC 3000 Model 400; DEC OSF/1 Version 3.0</td>
<td>Alpha AXP; DEC 2000 models 300 AXP, 500 AXP; 2100 Server A500MP, A600MP; 3000 models 300 AXP, 300L, 300X, 300LX, 400 AXP, 400S, 500 AXP, 500X, 600 AXP, 600S, 800 AXP, 800S, 4000 models 610 AXP, 710; 7000 model 610 AXP; 10000 model 610 AXP; DEC OSF/1 Version 3.0</td>
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<tr>
<td>DEC C for OpenVMS Alpha Version 5.0; NIST-95/1503; 5/1/96</td>
<td>DECstation 3000 Model 400; OpenVMS Alpha Version 6.2</td>
<td>DEC 2000 Model 300, 500; Digital 2100 A500MP/ A600MP; DEC 3000 Models 300, 300L, 300X, 300LX, 400, 400S, 500, 500S, 500X, 600, 600S, 700, 800, 800S, 900, DEC 4000 Models 600, 700; DEC 7000 Model 600; 10000 Model 600; OpenVMS Alpha, Version 6.2</td>
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<td>DEC C for Digital UNIX Version 4.2; NIST-95/1504; 5/1/96</td>
<td>DEC 3000 Model 400 Alpha; Digital UNIX Version 3.2</td>
<td>DEC 2000 Models 300 AXP, 500; DEC 3000 Models 300, 300L, 300X, 300LX, 400, 400S, 500, 500S, 500X, 600, 600S, 700, 800, 800S, 900; Alpha Server 2000 4/200, 2100 4/200, 4/275; DEC 4000 models 6xx, 7xx; DEC 7000 models 6xx, 7xx; DEC 10000 models 6xx, 7xx; Alpha Server 1000 4/200; Alpha Station 200 4/166, 4/233; 400 4/233, AXPpci 33, AXPvme 64, 160; Digital UNIX, Version 3.2</td>
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<td>SUPPLIER</td>
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<td>IBM Canada Ltd.</td>
<td>IBM C Set ++ for AIX Version 3 Release 1; NIST-94/2025; 9/1/95</td>
<td>IBM RISC System/6000; IBM AIX Version 4 Release 1</td>
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<td>IBM ILE C/400 Version 3 Release 1; NIST-94/2123; 11/1/95</td>
<td>AS/400; OS/400 Version 3 Release 1</td>
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<td>IBM 370 Compiler</td>
<td>ES/9000; MVS/ESA SP Version 4 Release 3</td>
<td>3090, 308x, 43xx, 937x; MVS/ESA SP Version 4 Release 3</td>
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<tr>
<td>IBM SAA AD/Cycle C/370 Compiler Version 1 Release 2; NIST-94/2022; 9/1/95</td>
<td>ES/9000; MVS/ESA SP Version 4 Release 3</td>
<td>3090, 308x, 43xx, 937x; MVS/ESA SP Version 4 Release 3</td>
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<td>IBM SAA AD/Cycle C/370 Compiler Version 1 Release 2; NIST-94/2023; 9/1/95</td>
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<td>3090, 308x, 43xx, 937x; MVS/ESA SP Version 4 Release 3</td>
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<tr>
<td>IBM Visual Age C++ for OS/2 Version 3; NIST-95/2041; 7/1/96</td>
<td>Intel 80486 100mph OS/2 Warp Version 3</td>
<td>IBM models 8535, 8540, 855x, 856x, 857x, 8580, 859x, 9533, 9545, 955x, 9575, 9577, 9585, 959x, 638x, 648x, 649x, 657x, 658x, 68xx, 864x, 550, 720, 810, 510Cs, 340, 355, 360, 701, 750, 755, 700 OS/2 2.11 - Warp Version 3.0</td>
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<td>Clipper C300 and C400; CLIX Version 7.5</td>
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<td>Clipper Model C400- 2430; CLIX Version 7.5</td>
<td>Clipper C300 and C400; CLIX Version 7.5</td>
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<td>Microsoft C/C++ Optimizing Compiler Version 9.00 Release Microsoft Visual C++ Version 2.0; NIST-94/2141; 10/1/95</td>
<td>MIPS/NEX Model Image RISCStation; Microsoft Windows NT Version 3.5</td>
<td>Unisys X-Series Deskside/LX; Compaq Deskpro XE560; IBM Valuepoint 6384-199; Microsoft Windows NT Version 3.5</td>
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<td>Voyager, SPARCstation 10, SPARCserver 1000, SPARCcenter 2000; Solaris Version 2.4</td>
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<td>SCO Unix Release 3.2 Version 4.2</td>
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<td>2200 OS EXEC Version 44R3 Release SB5R3</td>
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2.7.6 M[UMPS] PROCESSORS

No entries at this time.
No entries at this time.
3. DATABASE LANGUAGE (SQL)

3.1 FIPS Database Language Standards

As specified by the FIPS, FIRMR and the associated Federal ADP and Telecommunications Standards Index, Federal agencies, when acquiring SQL processors, are responsible for assuring that processors are in accordance with the applicable FIPS PUB 127, Database Language SQL. On December 3, 1993, FIPS PUB 127-2 superseded FIPS PUB 127-1.

3.2 Organization of Database Language Processor Entries

Each entry in the VPL is a very limited extract from the Validation Summary Report (VSR) available from the Software Standards Validation Group at NIST. See 3.4 and 3.5 below.

Products validated for conformance to FIPS PUB 127-2 are listed. Products that demonstrated one or more nonconformities, as assessed by the SQL Validation System, are listed separately at the end. (These products are considered "provisionally" validated, pending correction of nonconformities.) The entries in the VPL for database language processors are presented as follows:

- The VENDOR column contains the name of the Vendor of the processor.

- The second column contains the name of the processor, its version number, the VSR number, the Expiry date of the Validation Certificate or the Registered VSR, and the hardware and operating system on which the testing was done. The term "Pre-release" means that the vendor has designated the SQL processor as "not commercially available" at the time of validation. The product is listed to assist users in planning for future procurements. The term "Vendor-Tested Port" means the Vendor has complied with CSL procedures for self-testing a ported version of a registered SQL processor. NIST has reviewed Vendor test results and determined them to be equivalent to those in the referenced BASE VSR.

- The INTERFACES & COMPILERS column contains the names of associated interactive SQL or programming language interfaces, and identification of the programming language compilers that interface with the SQL processor. A listing in the COMPILERS column is not an indication that the compiler has been validated for the applicable programming language standard. See the preceding "Programming Languages" Section for a list of validated compilers.

- The last column entries column include other hardware and operating system environments in which the processor operates, and the programming language compilers that interface with the SQL processor. The listings of the compilers and operating systems may contain a range of versions that are supported. Rebadged or renamed software are also listed here. This column is restricted to binary-compatible hardware environments. This column also lists the number and type of nonconformities for each programming language interface tested. "Schema" nonconformities are deficiencies in support for standard schema definition language constructs. "FIPS Flagger" in this column indicates that the mandatory FIPS Flagger requirement of FIPS 127 was not implemented. Refer to the VSR for details. The number of nonconformities is only one limited measure of the quality of an SQL interface. It is more important to analyze the nature of each individual nonconformity and its impact on meeting user requirements.

3.3 Validation Requirements

Refer to Database Language SQL Validation Procedures. The requirements for validation of database language processors are the same as those for programming language processors, listed in section 2.3.1,
with several exceptions. Expired VSRs are deleted from the VPL to motivate vendors to test new releases of their SQL processors and to demonstrate conformance to more comprehensive versions of the SQL Test Suite. Information about expired VSRs or vendor self-testing with the SQL Test Suite may be available from the vendor.

3.4 Certificate of Validation

A Certificate of Validation is issued for those SQL processors that have been tested and are considered to be in compliance with FIPS as specified by the FIPS, by the FIRMR, and the associated Federal ADP and Telecommunications Standards Index.

3.5 Registered Report

A Validation Summary Report (VSR) that indicates that the SQL processors did not meet the criteria for a Certificate of Validation may be registered by the Computer Systems Laboratory. A VSR is considered registered by CSL when it contains a signed notice that the VSR will be listed in the CSL Validated Products List (VPL).

3.6 Validation Procedures

SQL processors are tested in accordance with the procedures described in the NIST Database Language SQL Validation Procedures. To request a copy of the validation procedures and/or to request the validation of an SQL processor, contact:

National Institute of Standards and Technology
Computer Systems Laboratory
Software Standards Validation Group
Building 225, Room A266
Gaithersburg, Maryland 20899 (U.S.A.)
Telephone (301) 975-2490 (Voice)
(301) 975-3274 (Voice)
(301) 948-6213 (FAX)
e-mail: dashiell@speckle.ncsl.nist.gov (INTERNET)

3.7 SQL Validation System

To request a copy of the SQL Validation System and/or to submit questions regarding the SQL Validation System, contact:

National Institute of Standards and Technology
Computer Systems Laboratory
Database Languages Group
Building 225, Room A266
Gaithersburg, Maryland 20899 (U.S.A.)
Telephone (301) 975-3258 (Voice)
(301) 975-3263 (Voice)
(301) 948-6213 (FAX)
e-mail: sullivan@speckle.ncsl.nist.gov (INTERNET)
3.8 Availability of Validation Summary Report by FTP

ASCII formatted Validation Summary Reports are available in electronic media using the following instructions:

1. Type: ftp speckle.ncsl.nist.gov (internet address is 129.6.59.2)
2. Login as user ftp
3. Type your e-mail address preceded by a dash (-) as the password
4. Type: cd sql-testing/VSRs
5. Type: ascii
6. Type: get and the name of the file you want, e.g., README.TXT.

The README.TXT file contains disclaimer information; read this file for important information regarding potentially missing information from the VSR.
## 3.8 SQL PROCESSORS

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<th>VENDOR</th>
<th>PROCESSOR ID; VSR#; SUBSET; &amp; EXPIRY DATE; HARDWARE; OPERATING SYS.</th>
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<td>AT&amp;T Global Information Solutions</td>
<td>Teradata DBS, Version 5.0 (Pre-release); NIST-94/7150; 12/31/95; Client: Amdahl 5890-600E; IBM MVS XA, V. 2.2.0 Server: DBC/1012 Model 4 DBMS runs native to hardware</td>
<td>Embedded SQL C C Preprocessor 2, V. 5.2 (Pre-release) SAS C, Version 500.G Embedded COBOL COBOL Preprocessor 2, V. 5.2 (Pre-release) IBM VS COBOL II, Release 3.1 Interactive SQL (FIPS Default)</td>
<td>Features Tested: Entry FIPS 127-2 FIPS Sizing Defaults</td>
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<td>Informix-OnLine</td>
<td>Version 7.10; NIST-95/7013; 12/30/95; SUN SPARCSation 10; Solaris Version 2.4</td>
<td>Module Ada INFORMIX-ADA/SAME Version 6.0 Sun SPARCworks ADA Version 2.1</td>
<td>Features Tested: Entry FIPS 127-2 FIPS Sizing Defaults</td>
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**FIPS 127-2: ZERO NONCONFORMITIES**

[Entry FIPS 127-2 exceeds requirements for FIPS 127-1 with Integrity Enhancement Option]**
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<td>Embedded C&lt;br&gt;INFORMIX-ESQL/C&lt;br&gt;Version 7.10&lt;br&gt;Microsoft Visual C/C++ Version 2.00&lt;br&gt;Interactive SQL</td>
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<td>Embedded C&lt;br&gt;Pro*C, V. 1.6&lt;br&gt;SPARCompiler C&lt;br&gt;Rel. 3.0</td>
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<td>Embedded Ada Module Ada VAX Ada Version 2.3 Embedded C Module C VAX C Version 3.2 Embedded COBOL Module COBOL VAX COBOL Version 5.1 Embedded FORTRAN Module FORTRAN VAX FORTRAN Version 5.8 Embedded PASCAL Module PASCAL VAX Pascal Version 4.4 Interactive SQL (FIPS Default)</td>
<td>VAX 4000 Models 100, 200, 300, 400, 500, 600; VAX 6000 Models 200, 300, 400, 500, 600; VAX 7000 Model 600; VAX 8200, 8250, 8300, 8350, 8500, 8550, 8598, 8600, 8650, 8700, 8800, 8810, 8820, 8830, 8840; VAX 9000 Models 110; 210, 300, 400; VAX 10000 Model 600; VAXft 3000 Models 110, 310, 410, 610, 612; VAX-11/730, VAX-11/750, VAX-11/780, VAX-11/785; MicroVAX's II, 2000, 3100 Models 10/10E, 20/20E, 30, 40, 60, 90; MicroVAX's 3200, 3300, 3400, 3500, 3600, 3800, 3900; VAXstation's II, 2000, 3100 Models 30, 38, 40, 48, 76; VAXstation's 3200, 3500, 3520, 3540, 4000 Models 60, 90, VLC; VAXservers 3100, 3200, 3300, 3400, 3500, 3600, 3800, 3900, 4000 Models 200, 300, 400, 500, 600, 700; VAXserver 6000 Models 200, 300, 400, 500, 600, 600 Series; VAXservers 8200, 8250, 8300, 8350, 8530, 8550, 8600, 8650, 8700, 8800, 8810, 8830, 8840 OpenVMS VAX, Vers. 5.4, 5.5, 6.0</td>
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<td>DEC 2000 Model 300, DEC 3000 Models 300, 400 AXP Workstation, DEC 3000 Model 500 AXP AXP Server, DEC 3000 Model 500 AXP Workstation, DEC 3000 Model 500 AXP Server, DEC 4000 Model 610 AXP System, DEC 7000 Model 610 AXP System, DEC 10000 Model 610 AXP System OpenVMS AXP Ver. 1.5</td>
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<td>7/31/96;</td>
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<td>VENDOR</td>
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<td>INTERFACES &amp; COMPILERS</td>
<td>OTHER HW/SW ENVIRONMENTS</td>
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<tr>
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<td>Embedded COBOL COBOL Pre-compiler bundled with ADABAS D</td>
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<tr>
<td>DEC 3000 AXP Model 500 DEC OSF/1 Version 2.0</td>
<td>Embedded C C Pre-compiler bundled with ADABAS D</td>
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<tr>
<td>Sybase, Inc.</td>
<td>Sybase System 10 GA Release 10.0.1; NIST-94/7131; 4/30/96;</td>
<td>Schema Processor Interactive SQL (isql) Release 10.0.1 Embedded C Sybase System 10 Embedded SQL/C GA 10.0.1 gcc version 2.3.1</td>
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<tr>
<td>Client: Sun 4/25 SunOS V. 4.1.3</td>
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<td></td>
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<td>Server: Sun 4/25 SunOS V. 4.1.3</td>
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## SQL PROCESSORS, Continued

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<th>OTHER HW/SW ENVIRONMENTS</th>
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<td>SUBSET; &amp; EXPIRY DATE; HARDWARE; OPERATING SYS.</td>
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### Features Tested:
- Entry FIPS 127-2
- FIPS Sizing Defaults

### FIPS 127-2 - ONE OR MORE NONCONFORMITIES

[Entry FIPS 127-2 exceeds requirements for FIPS 127-1 with Integrity Enhancement Option]

No entries for this quarter.
4. GRAPHICS CONFORMANCE TESTING

4.1 FIPS GKS Standard

The Graphical Kernel System (GKS) is a two-dimensional graphics tool box which provides for the display and manipulation of pictures and graphical input from the operator. The purpose of GKS is to promote portability of graphics applications for use on a variety of graphics workstations. It provides a functional interface between an application program and a configuration of graphical devices. The interface is at such a level of abstraction that hardware peculiarities are shielded from the application program.

FIPS PUB 120-1, GKS, is the first Federal Information Processing Standard Publication (FIPS PUB) registered for computer graphics systems. In accordance with FIPS PUB 120-1, two-dimensional graphics toolbox packages acquired for Federal use after November 3, 1986 should implement FIPS GKS. Conformance testing of GKS implementations protects Federal investment by ensuring adherence to the graphics standard. FIPS PUB 120-1 requires that GKS implementations offered to Federal agencies be tested using the NIST Test Suite to ensure that a particular implementation meets the specifications of the FIPS. The GKS Validation Test Suite (Fortran) is available from:

Ms. Susan Sherrick  
National Institute of Standards and Technology  
Building 225, Room A266  
Gaithersburg, MD 20899  
(301) 975-3268

4.1.1 Organization of GKS Entries

The entries in the VPL for GKS implementations are presented as follows:

• The VENDOR column contains the name of the Vendor of the implementation.

• The next column contains the name of the implementation, its version number, the Expiry date of the certificate of validation, the VSR number, and level of GKS that was validated.

• The HARDWARE & OP. SYSTEM column presents the hardware and operating system environment used during the validation.

• The last column includes the graphics devices that were validated, and any other environments that have been registered.

4.2 FIPS PHIGS Standard

PHIGS stands for Programmer's Hierarchical Interactive Graphics System. PHIGS is a system for interactive 3-dimensional (3D) graphics applications that provides programmers with a set of features enabling them to manipulate and display complex 3D objects. It is called hierarchical because the complex objects can be built up from simpler objects. PHIGS also provides a rich set of facilities for real-time interaction with the user. While it borrows many concepts from the Graphical Kernel System (GKS) standard, it also introduces many new features, such as a "graphics data base" (the centralized structure store), and support for modeling and viewing.
In accordance with FIPS PUB 153, (PHIGS), 3D graphics packages acquired for Federal use should implement FIPS PHIGS. Conformance testing of PHIGS implementations protects Federal investment by ensuring adherence to the graphics standard. FIPS PUB 153 requires that PHIGS implementations offered to Federal agencies be tested using the NIST PVT (PHIGS Validation Tests) test suite. The test suite ensures that a particular implementation meets the specifications set forth in the FIPS. The PHIGS PVT test suite is available from:

Project Leader, PHIGS Validation Tests  
National Institute of Standards and Technology  
Computer Systems Laboratory  
Bldg. 225, Room A-266  
Gaithersburg, MD 20899  
phone: (301) 975-3265  
e-mail: phiggs@speckle.ncsl.nist.gov

4.2.1 Organization of PHIGS Entries

The entries in the VPL for PHIGS implementations are as follows:

- The VENDOR column contains the name of the vendor of the implementation.
- The PHIGS name column contains the name of the implementation, its version number, the Validation Summary Report (VSR) number, and the expiry date of the certification of validation.
- The HARDWARE & OP.SYSTEM column presents the hardware and operating system environment used during the validation.
- The GRAPHICS DEVICES column includes the graphics devices that were validated.
- The entries in the REGISTERED ENVIRONMENTS HW/OS column includes registered hardware and operating systems for the implementation tested. The vendor of the implementation has certified that the identified processor, when operating under the environments included in this column, produces the same test results exhibited during the validation. Test results and other information from these environments may be required as evidence for entries to be included in this column.
- The NONCONFORMITIES column indicates whether or not the PHIGS implementation conforms to the FIPS in one or more cases as evidenced by the validation. The VSR should be reviewed for more details of the nonconformities.

4.3 FIPS CGM Standard

Federal Information Processing Standard Publication (FIPS PUB) 128-1, Computer Graphics Metafile (CGM), is a data interchange standard for the storage and retrieval of picture information in a device independent manner. The purpose of the CGM is to facilitate the transfer of graphical information among different computer systems, graphical devices, and/or applications.

The FIPS PUB 128-1 requires the use of application profiles. In particular, FIPS PUB 128-1 requires the use of military specification MIL-D-28003A, commonly known as the Continuous Acquisition and Life-Cycle Support (CALS) CGM Application Profile (AP). FIPS PUB 128-1 should be used when the representation of graphical information in digital form is to be used in
technical illustrations and publications, and when the use of a general-purpose, graphical interchange mechanism is required.

The NIST CGM Validation Test Service is divided into three testing programs: metafile, generator, and interpreter testing. The purpose of the Test Service is to determine the degree to which the metafile, CGM generator, or CGM interpreter conforms to the FIPS 128-1, and subsequently the CALS CGM AP. Presently, the NIST CGM Validation Test Service addresses only CGM Version 1.

4.3.1 Validation Procedures and Test Suite

CGM files, generators, and interpreters are tested in accordance with procedures described in the NIST Procedures for CGM Testing, NISTIR 5372. The current version of the CGM Generator Test Suite is 1.0; the current version of the Validation Test Software is 5.02. The CGM Interpreter Test Suite is issued as Release 1.1. The validation procedures and test suites are available from:

National Institute of Standards and Technology (NIST)
Computer Systems Laboratory
CGM Test Service
Room A266, Technology Building
Gaithersburg, MD 20899
Telephone: (301) 975-3265

4.3.2 Certificate of Validation

Conformance testing of metafiles focuses on testing an instance of a CGM for conformance to Version 1 CGM as specified in the FIPS PUB 128-1. If the CGM tested is in compliance with the FIPS 128-1, a Certificate of Validation will be issued. The certificate is valid indefinitely; i.e., it does not expire. If a metafile is modified in any way, it will be considered a 'new' CGM and thus, not covered by the certificate. Conformance of a metafile does NOT necessarily imply conformance of a CGM generator, interpreter, or other CGMs created on the same system.

For CGM generator and interpreter testing, a certificate of validation is issued for an implementation that has been tested and is compliant with the FIPS PUB 128-1.

4.3.3 Validated Metafiles

The metafiles identified in Section 4.5 have been tested for conformity with FIPS 128-1. Each entry in the VPL is a very limited extract from the Validation Summary Report (VSR) available from NIST/CSL.

4.4 Raster Graphics Standards

FIPS PUB 150 adopts EIA-538 which defines the facsimile coding schemes and their control functions for Group 4 facsimile apparatus, i.e., ITU-T (formerly CCITT) Recommendation T.6. It defines a standard compression algorithm (T.6 - Group 4) suitable for the storage, retrieval, and interchange of raster graphics images.

Military Specification MIL-R-28002 specifies the structure and encoding of raster data files to be delivered to the government. It specifies the use of the standard compression algorithm defined
in FIPS PUB 150. It also specifies the use of standard file headers which are defined in MIL-STD-1840. MIL-STD-1840 standardizes the format and structure of digital technical data files for the purpose of interchange between organizations or systems.

4.4.1 Certificate of Validation

The Raster Graphics Validation Test Service tests an implementation’s capability of both receiving and generating raster graphics data conforming to the specifications in FIPS PUB 150 and MIL-R-28002.

A certificate of validation is issued for an implementation that passes the validation test and conforms to FIPS PUB 150 and MIL-R-28002.

4.4.2 Information Pack

Upon request, a Raster Graphics Validation Test Information Pack is available from:

National Institute of Standards and Technology (NIST)
Computer Systems Laboratory
Raster Graphics Validation Test Service
Technology Building, Room A266
Gaithersburg, MD 20899
### 4.5 GKS IMPLEMENTATIONS

<table>
<thead>
<tr>
<th>VENDOR</th>
<th>GKS NAME; EXPIRY DATE; VSR #; LEVEL</th>
<th>HARDWARE; OPERATING SYSTEM</th>
<th>GRAPHICS DEVICES; REGISTERED ENVIRONMENTS</th>
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<tr>
<td>Digital Equipment Corporation</td>
<td>DEC GKS Version 6.0 for Open VMS AXP Systems; 12/1/96; NIST/NCC-94/900; Level 2c</td>
<td>DEC System 3000/500; Open VMS AXP Version 6.1</td>
<td>Motif Workstation PostScript Workstation (using DEC LN03-A2 Laser Printer):</td>
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<tr>
<td>Digital Equipment Corporation</td>
<td>DEC GKS Version 6.0A for DEC OSF/1 AXP Systems; 12/1/96; NIST/NCC-94/901; Level 2c</td>
<td>DEC System 3000/500; DEC OSF/1 AXP Version 2.0</td>
<td>Motif Workstation PostScript Workstation (using DEC LN03-A2 Laser Printer):</td>
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## 4.6 COMPUTER GRAPHICS METAFILES

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<th>CGM/SIZE/DATE: GENERATOR</th>
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<tr>
<td>Interleaf, Inc</td>
<td>NIST-M-92/003-001 9/2/92: 1/1</td>
<td>asg.cgm 8880 8/31/92; Interleaf Inc MDL/G Interleaf 5 v5.3, HP9000/700, HP UX v6.07</td>
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<td>El Segundo, CA</td>
<td>NIST-M-92/005-002 10/28/92: 5/5</td>
<td>gcgm_i220.cgm 5280 10/27/92; GRAFPAK-CGM 1.1.2</td>
<td>IBM RS6000 Model 220, AIX 3.2</td>
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<td>IBM Corporation Federal Sector Division Oswego, NY</td>
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<td>gcgm_i530.cgm 5280 10/27/92; GRAFPAK-CGM 1.1.2</td>
<td>IBM RS6000 Model 530, AIX 3.2</td>
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<td>IBM Corporation Federal Sector Division Oswego, NY</td>
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<td>NCR 3450, NCR UNIX SVR4</td>
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<td>NCR 3550, NCR UNIX SVR4</td>
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<td>ESRI Boulder CO</td>
<td>NIST-M-93/006-003 1/26/93: 5/5</td>
<td>sun.cgm 181680 1/19/93; ARC/INFO</td>
<td>SUN SpercStation, Sun OS 4.1.3</td>
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<td>ibm.cgm 181680 1/19/93; ARC/INFO</td>
<td>IBM RS6000, AIX 3.2</td>
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<td>dg.cgm 181680 1/19/93; ARC/INFO</td>
<td>Data General AviiON, DG/UX 5.4.1</td>
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<td>sgi.cgm 181680 1/19/93; ARC/INFO</td>
<td>Silicon Graphics Indigo, IRIX 4.0.2</td>
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<td>EDS Herndon, VA</td>
<td>NIST-M-93/007-004 1/29/93: 3/3</td>
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<td>demo8.cgm 3840 1/28/93; GRAFPAK-GKS 4.0</td>
<td>SPARCStation 10 Model 30, Solaris 2.1</td>
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No entries at this time.
5. NIST POSIX CONFORMANCE TESTING

5.1 FIPS POSIX Standard
The National Institute of Standards and Technology through its Computer Systems Laboratory (NIST/CSL) has established a conformance testing program for the Federal Information Standard for POSIX (FIPS 151-1 and FIPS 151-2). FIPS 151-2 replaced FIPS 151-1 in its entirely on October 15, 1993. These standards are based on the IEEE POSIX Std. 1003.1-1988 (FIPS 151-1) and ISO/IEC 9945-1:1990 (FIPS 151-2). The testing model includes a Certification Authority, NVLAP Accredited Testing Laboratories, Clients and the official NIST POSIX Conformance Test Suites. The Certification Authority is the Director of NIST/CSL. The National Voluntary Laboratory Accreditation Program (NVLAP), part of NIST, accredits the testing laboratories. The test suites NIST-PCTS:151-1 and NIST-PCTS:151-2 were developed by NIST/CSL and are based on the test assertions specified by the IEEE Standard for Information Technology — Test Methods for Measuring Conformance to POSIX, IEEE Std. 1003.3-1991 (NIST-PCTS:151-1) and the IEEE Standard for Information Technology — Test Methods for Measuring conformance to POSIX.1, IEEE Std 2003.1-1992 (NIST-PCTS:151-2).

5.2 POSIX Test Procedures
There are Accredited POSIX Testing Laboratories (APTLs) accredited by NVLAP for using one or both test suites. NVLAP accreditation is renewable after one year, and identifies the specific testing procedures which the lab is authorized to run. The labs provide testing and analysis services to their clients and may forward the final test results to NIST/CSL for evaluation and subsequent issuance of a Certificate of Validation by NIST/CSL.

Testing policy documents and registers of validated products and accredited laboratories and available on an electronic mail (email) file server system. For most email systems, send an email message to posix@nist.gov (mail posix@nist.gov). The first line of the message should contain a command to send index (send index). After issuing the send command and a carriage return, end the email message. A listing of all of the available files will be returned via email to the requesting email address.

5.3 POSIX Test Suite
The NIST-PCTS:151-2 is available from NIST/CSL, POSIX Certification Authority, Building 225 Room B266, National Institute of Standards and Technology, Gaithersburg, MD 20899.

5.4 Validation Requirements
An accredited lab may submit a "clean" test report to NIST/CSL for evaluation in anticipation of a Certification of Validation being issued. "Clean" implies no test assertion failures. The Certificate of Validation will confirm that the stated product has been tested using the official NIST-PCTS and that the test results have been validated by NIST/CSL. The Certificate of Validation and the Test Results Summary contain information on the product tested, the implementation that was tested, the suppliers, conditional features that were tested, configuration details and the identification of the testing laboratory. These certificates are issued by NIST/CSL through the testing lab. Fees for services by the testing labs are established by the labs.
5.5 TESTING LABORATORIES for NIST POSIX (FIPS 151-1)

The National Voluntary Laboratory Accreditation Program (NVLAP) has accredited the following laboratories to test computer operating system interfaces for conformance with the Federal Information Processing Standard 151-1 (FIPS 151-1) using the NIST POSIX Conformance Test Suite (NIST-PCTS:151-1). Only accredited laboratories may submit test reports to NIST/CSL for validation.

ACCREDITED NIST POSIX TESTING LABORATORIES

The National Voluntary Laboratory Accreditation Program (NVLAP) has accredited the following laboratories to test computer operating system interfaces for conformance with the Federal Information Processing Standard 151-1 (FIPS 151-1) using the NIST POSIX Conformance Test Suite (NIST-PCTS:151-1). Only accredited laboratories may submit test reports to NIST/CSL for validation.

BULL S.A. / Laboratoire POSIX
1 rue de Provence / BP208
38432 ECHIROLLES CEDEX (France)

DataFocus Incorporated
12450 Fair Lakes Circle, Suite 400
Fairfax, VA 22033-3831

Mindcraft, Inc.
410 Cambridge Avenue
Palo Alto, CA 94306

PERENNIAL
4699 Old Ironsides Drive, Suite 210
Santa Clara, CA 95054

Contact: Mr. Georges Chardon
Phone: (33) 76 39 75 93

Contact: Mr. Glen McPherson
Phone: 703-631-6770

Contact: Mr. Bruce Weiner
Phone: 415-323-9000

Contact: Mr. Barry E. Hedquist
Phone: 408-748-2900
5.6 VALIDATED PRODUCTS
for NIST POSIX (FIPS 151-1)

NIST POSIX VALIDATED PRODUCTS

The following products have been tested by an Accredited POSIX Testing Laboratory (APTLJ) using the official National Institute of Standards and Technology POSIX Conformance Test Suite (NIST-PCTS:151-1) for the Federal Information Processing Standards Publication 151-1 (FIPS PUB 151-1). A Certificate of Validation has been issued by NIST/CSL. Additional information is available from NIST/CSL on conditional features supported, configuration details, and resolved test codes (if appropriate).

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<tr>
<th>PRODUCT SUPPLIERS</th>
<th>REFERENCE FILE #</th>
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<tbody>
<tr>
<td>Amdahl Corporation</td>
<td>AMD5598</td>
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<tr>
<td>Apple Computer Inc.</td>
<td>APP2482, APP3355, APP7204, APP7224, APP7235, APP8616, APP9125, APP9165</td>
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<td>AT&amp;T</td>
<td>ATT1566</td>
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<td>Bull S.A.</td>
<td>BUL2387, BUL6051</td>
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<td>Control Data Corporation</td>
<td>CDC1101, CDC5574, CDC5750</td>
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<td>CONVEX Computer Corporation</td>
<td>CON0202, CON2551, CON6027</td>
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<td>Cray Research, Inc.</td>
<td>CRA2641</td>
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<tr>
<td>Data General Corporation</td>
<td>DGC2542, DGC4767, DGC8016, DGC8703, DGC9391, DGC9574</td>
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<tr>
<td>Digital Equipment Corp.</td>
<td>DEC0319, DEC0638, DEC4670, DEC5794, DEC7386, DEC7833, DEC7917, DEC8003, DEC9418, DEC9672</td>
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<tr>
<td>Encore Computer Corporation</td>
<td>ENC6897</td>
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<tr>
<td>ESXEverex Systems, Inc.</td>
<td>EVR9091, EVR9749</td>
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<tr>
<td>Harris Corporation</td>
<td>HAR2540</td>
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<tr>
<td>Hewlett-Packard Company</td>
<td>HP0115, HP0303, HP0055, HP0603, HP1961, HP2540, HP2698, HP2952, HP3574, HP3760, HP3897, HP4246, HP6304, HP6391, HP6637, HP6906, HP7051, HP7116, HP8098, HP9185</td>
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<tr>
<td>Interactive Systems Corp.</td>
<td>INT5154</td>
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<td>Intergraph Corporation</td>
<td>INT4765</td>
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<td>International Business Machines, Inc.</td>
<td>IBM0320, IBM0458, IBM1344, IBM2592, IBM3697</td>
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<td>Lynx Real-Time Systems, Inc.</td>
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<td>Modular Computer Systems, Inc.</td>
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<td>Motorola Computer Group</td>
<td>MOT0896, MOT5618</td>
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<td>NCR Corporation</td>
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<td>NeXt Computer, Inc.</td>
<td>NXT0623</td>
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## NIST POSIX VALIDATED PRODUCTS, Continued

### Reference File #: AMD5598
- **Product Supplier:** Amdahl Corporation
- **Product Tested:** UTS System Version: 4 Release: 1
- **System Supplier:** Amdahl Corporation
- **System Hardware:** 5995M Model: 4550
- **Compiler:** Amdahl C Version: 1.5 Release: June, 1993
- **PCTS:** 151-1 Version: 1.1 - 05/21/92
- **APTL:** 0342 Mindcraft, Inc. Date Issued: 07/23/93

### Reference File #: APP2482
- **Product Supplier:** Apple Computer Inc.
- **Product Tested:** A/UX Version: 2.0.1 Release: 01/30/1991
- **System Supplier:** Apple Computer Inc.
- **System Hardware:** Macintosh Model: IIx
- **Compiler:** A/UX native C compiler (cc) Ver: 1.21 Rel: 1/13/1991
- **PCTS:** 151-1 Version: 1.1 - 04/26/91
- **APTL:** 0342 Mindcraft, Inc. Date Issued: 05/24/91

### Reference File #: APP3355
- **Product Supplier:** Apple Computer Inc.
- **Product Tested:** A/UX Version: 3.0 Release: March 9, 1992
- **System Supplier:** Apple Computer Inc.
- **System Hardware:** Macintosh Model: Quadra 700
- **Compiler:** A/UX native C compiler (cc) Ver: 1.23 Rel: Feb 9, 1992
- **PCTS:** 151-1 Version: 1.1 - 01/22/92
- **APTL:** 0342 Mindcraft, Inc. Date Issued: 04/16/92

### Reference File #: APP7724
- **Product Supplier:** Apple Computer Inc.
- **Product Tested:** A/UX Version: 3.0 Release: March 9, 1992
- **System Supplier:** Apple Computer Inc.
- **System Hardware:** Workgroup Server Model: 80
- **Compiler:** A/UX Developer's Tools (c89) Ver: 1.1 Rel: Apr 1, 1992
- **PCTS:** 151-1 Version: 1.1 - 05/21/92
- **APTL:** 0342 Mindcraft, Inc. Date Issued: 06/24/93

### Reference File #: APP7735
- **Product Supplier:** Apple Computer Inc.
- **Product Tested:** A/UX Version: 2.0.1 Release: 01/30/1991
- **Supplier:** Apple Computer Inc. Hardware: Macintosh Model: lllc
- **Compiler:** A/UX native C compiler (cc) Ver: 1.21 Rel: 01/13/1991
- **PCTS:** 151-1 Version: 1.1 - 04/26/91
- **APTL:** 0342 Mindcraft, Inc. Date Issued: 05/24/91

### Reference File #: APP8516
- **Product Supplier:** Apple Computer Inc.
- **Product Tested:** A/UX Version: 2.0.1 Release: 01/30/1991
- **Supplier:** Apple Computer Inc. Hardware: Macintosh Model: llsl
- **Compiler:** A/UX native C compiler (cc) Ver: 1.21 Rel: 01/13/1991
- **PCTS:** 151-1 Version: 1.1 - 04/26/91
- **APTL:** 0342 Mindcraft, Inc. Date Issued: 05/24/91

### Reference File #: APP9125
- **Product Supplier:** Apple Computer Inc.
- **Product Tested:** A/UX Version: 3.0 Release: March 9, 1992
- **System Supplier:** Apple Computer Inc.
- **System Hardware:** Macintosh Model: Quadra 700
- **Compiler:** A/UX Developer's Tools (c89) Ver: 1.1 Rel: April 1, 1992
- **PCTS:** 151-1 Version: 1.1 - 05/21/92
- **APTL:** 0342 Mindcraft, Inc. Date Issued: 08/11/92

### Reference File #: APP9165
- **Product Supplier:** Apple Computer Inc.
- **Product Tested:** A/UX Version: 3.0 Release: March 9, 1992
- **System Supplier:** Apple Computer Inc.
- **System Hardware:** Macintosh Model: Quadra 950
- **Compiler:** A/UX Developer's Tools (c89) Ver: 1.1 Rel: Apr 1, 1992
- **PCTS:** 151-1 Version: 1.1 - 05/21/92
- **APTL:** 0342 Mindcraft, Inc. Date Issued: 08/11/92

### Reference File #: ATT1566
- **Product Supplier:** AT&T
- **Product Tested:** AT&T UNIX System V Ver: Release 4 Rel: 4.0.3
- **System Supplier:** AT&T
- **System Hardware:** AT&T 3B2 R3 Series Model: 3B2/600 GR
- **Compiler:** C Compiler: AT&T 3B2/RISC C Development System Version: 1.0
- **PCTS:** 151-1 Version: 1.1 - 09/11/91
- **APTL:** 0343 DataFocus Incorporated Date Issued: 11/06/91

### Reference File #: BUL2387
- **Product Supplier:** BULL S.A.
- **Product Tested:** BOS/X Version: 2 Release: 1
- **System Supplier:** BULL S.A.
- **System Hardware:** DPX/2 Model: 200
- **Compiler:** C Compiler: BOS/X XL C Compiler Version: 1 Release: 02
- **PCTS:** 151-1 Version: 1.1 - 05/21/92
- **APTL:** 0373 BULL S.A./Laboratoire POSIX Date Issued: 2/24/93

### Reference File #: BUL5051
- **Product Supplier:** BULL S.A.
- **Product Tested:** BOS/X Version: 3 Release: 2
- **System Supplier:** BULL S.A.
- **System Hardware:** DPX/20 Model: 620
- **Compiler:** C Compiler: BOS/X XL C Compiler Version: 1 Release: 02
- **PCTS:** 151-1 Version: 1.1 - 05/21/92
- **APTL:** 0373 BULL S.A./Laboratoire POSIX Date Issued: 1/22/93

### Reference File #: CDC1101
- **Product Supplier:** Control Data Corporation
- **Product Tested:** EP/IX Version: 1.4.2 Release: November 27, 1991
- **System Supplier:** Control Data Corporation
- **System Hardware:** Control Data 4000 Model: 4680MP
- **Compiler:** EP/IX C Language RISCompiler V: C 2.11 Rel: July 1990
- **PCTS:** 151-1 Version: 1.1 - 09/11/91
- **APTL:** 0356 Applications Software Incorporated Date Issued: 1/29/92

### Reference File #: CDC5574
- **Product Supplier:** Control Data Corporation
- **Product Tested:** EP/IX Version: 1.3.1 Release: 03/21/1991
- **System Supplier:** Control Data Corporation
- **System Hardware:** Control Data 4000 Model: 4330-250
- **Compiler:** EP/IX C Language RISCompiler Version: 2.11 Release: July 1990
- **PCTS:** 151-1 Version: 1.1 - 04/26/91
- **APTL:** 0356 Applications Software Incorporated Date Issued: 05/24/91

### Reference File #: CDC5750
- **Product Supplier:** Control Data Corporation
- **Product Tested:** EP/IX Version: 1.3.1 Release: 03/21/1991
- **System Supplier:** Control Data Corporation
- **System Hardware:** Control Data 4000 Model: 4680
- **Compiler:** EP/IX C Language RISCompiler Version: 2.11 Release: 07/16/1990
- **PCTS:** 151-1 Version: 1.1 - 04/26/91
- **APTL:** 0356 Applications Software Incorporated Date Issued: 05/24/91

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NIST POSIX VALIDATED PRODUCTS, Continued

Reference File #: CON0202
Product Supplier: CONVEX Computer Corporation
Product Tested: ConvexOS Version: 10.1 Release: C200 Series
System Supplier: CONVEX Computer Corporation
System Hardware: C2 Model: C220
C Compiler: CONVEX C Version: 4.3.2
PCTS: 151-1 Version: 1.1 - 01/22/92
APTL: 0343 DataFocus Incorporated Date Issued: 05/11/92

Reference File #: CON551
Product Supplier: CONVEX Computer Corporation
Product Tested: ConvexOS Version: 10.1 Release: C3800 Series
System Supplier: CONVEX Computer Corporation
System Hardware: C38 Model: C3810
C Compiler: CONVEX C Version: 4.3.2
PCTS: 151-1 Version: 1.1 - 01/22/92
APTL: 0343 DataFocus Incorporated Date Issued: 05/11/92

Reference File #: CON5027
Product Supplier: CONVEX Computer Corporation
Product Tested: ConvexOS Version: 10.1 Release: C3400 Series
System Supplier: CONVEX Computer Corporation
System Hardware: C34 Model: C3440
C Compiler: CONVEX C Version: 4.3.2
PCTS: 151-1 Version: 1.1 - 01/22/92
APTL: 0343 DataFocus Incorporated Date Issued: 05/11/92

Reference File #: CRA2641
Product Supplier: Cray Research, Inc.
Product Tested: UNICOS Version: 7.0.5 Release: 7.0
System Supplier: Cray Research, Inc.
System Hardware: Cray Y-MP Model: YM2E/232-4
C Compiler: Cray Standard C Compiler Release: 3.0 (5/20/93)
PCTS: 151-1 Version: 1.1 - 05/21/92
APTL: 0343 DataFocus Incorporated Date Issued: 10/14/93

Reference File #: DEC0319
Product Supplier: Digital Equipment Corporation
Product Tested: DEC OSF/1 Version: 1.2 Release: March 1993
System Supplier: Digital Equipment Corporation
System Hardware: DEC/3000 Model: 500
C Compiler: DEC OSF/1 for AXP C Compiler Version: 1 Release: March 1993
PCTS: 151-1 Version: 1.1 - 05/21/92
APTL: 0342 Mindcraft, Inc. Date Issued: 03/10/93

Reference File #: DECO638
Product Supplier: Digital Equipment Corporation
Product Tested: VMS Version: 5 Release: 5 (with VMS POSIX, version 1.0)
System Supplier: Digital Equipment Corporation
System Hardware: VAXstation Model: 3100 M76
C Compiler: VAX C Version: 3 Release: 2
PCTS: 151-1 Version: 1.1 - 09/11/91
APTL: 0343 DataFocus Incorporated Date Issued: 01/29/92

Reference File #: DEC4670
Product Supplier: Digital Equipment Corporation
System Supplier: Digital Equipment Corporation
System Hardware: DECstation Model: 5000/150
C Compiler: MIPS C Compiler Version: 3.0
PCTS: 151-1 Version: 1.1 - 05/21/92
APTL: 0342 Mindcraft, Inc. Date Issued: 06/24/93

Reference File #: DEC9672
Product Supplier: Digital Equipment Corporation
System Supplier: Digital Equipment Corporation
System Hardware: DECstation Model: 5000/200
C Compiler: MIPS C Compiler Version: 2.10
PCTS: 151-1 Version: 1.1 - 09/11/91
APTL: 0342 Mindcraft, Inc. Date Issued: 02/12/92
NIST POSIX VALIDATED PRODUCTS, Continued

Reference File #: DGC2542
Product Supplier: Data General Corporation
Product Tested: DG/UX Version: 5.4
System Supplier: Data General Corporation
System Hardware: Avion 5000 Model: AV/5240
C Compiler: GNU C Compiler for AviION Systems Version: 1.37.23
PCTS: 151-1 Version: 1.1 - 07/01/91
APTL: 0342 Mindcraft, Inc. Date Issued: 09/10/91

Reference File #: DGC4767
Product Supplier: Data General Corporation
Product Tested: DG/UX Version: 5.4.2 Release: August 1992
System Supplier: Data General Corporation
System Hardware: Avion AV/530/4600 Model: AV/532
C Compiler: GNU C Compiler for AviION Systems Version: 2.2.3 Release: August 1992
PCTS: 151-1 Version: 1.1 - 05/21/92
APTL: 0342 Mindcraft, Inc. Date Issued: 09/09/92

Reference File #: DGC8016
Product Supplier: Data General Corporation
Product Tested: DG/UX Version: 5.4
System Supplier: Data General Corporation
System Hardware: Avion 400/4000 Model: AV/4100
C Compiler: GNU C Compiler for AviION Systems Version: 1.37.23
PCTS: 151-1 Version: 1.1 - 07/01/91
APTL: 0342 Mindcraft, Inc. Date Issued: 09/10/91

Reference File #: DGC8703
Product Supplier: Data General Corporation
Product Tested: DG/UX Version: 5.4
System Supplier: Data General Corporation
System Hardware: Avion AV/400/4000 Model: AV/412
C Compiler: GNU C Compiler for AviION Sys Version: 1.37.23
PCTS: 151-1 Version: 1.1 - 04/28/91
APTL: 0342 Mindcraft, Inc. Date Issued: 05/24/91

Reference File #: DGC9391
Product Supplier: Data General Corporation
Product Tested: DG/UX Version: 4.32
System Supplier: Data General Corporation
System Hardware: Avion AV/8000 Model: AV/6240
PCTS: 151-1 Version: 1.1 - 05/21/92
APTL: 0342 Mindcraft, Inc. Date Issued: 11/03/92

Reference File #: DGC9574
Product Supplier: Data General Corporation
Product Tested: DG/UX Version: 5.4.2 Release: August 1992
System Supplier: Data General Corporation
System Hardware: Avion AV/8000 Model: AV/6240
PCTS: 151-1 Version: 1.1 - 05/21/92
APTL: 0342 Mindcraft, Inc. Date Issued: 11/03/92

Reference File #: ENC8597
Product Supplier: Encore Computer Corporation
Product Tested: UM iMAX V Release: 3.0.6
System Supplier: Encore Computer Corporation
System Hardware: 91 Series Model: 91-02427
C Compiler: Green Hills Software, Inc. C Release: 1.1
PCTS: 151-1 Version: 1.1 - 01/22/92
APTL: 0345 UniSoft Corporation Date Issued: 3/12/92

Reference File #: EVR0901
Product Supplier: ESIX/Everex Systems, Inc.
Product Tested: ESIX System V Release 4 Version: 4.0 Release: 4.0
System Supplier: AGI Computer, Inc.
System Hardware: AGI Model: 486/33
C Compiler: ESIX ANSI C Compiler Version: 5.0
PCTS: 151-1 Version: 1.1 - 01/22/92
APTL: 0343 DataFocus Incorporated Date Issued: 05/28/92

Reference File #: EVR79749
Product Supplier: ESIX/Everex Systems, Inc.
Product Tested: ESIX System V Release 4 Version: 4.0 Release: 4.0
System Supplier: ESIX/Everex Systems, Inc.
System Hardware: Everex Model: 3000S 386/33
C Compiler: ESIX ANSI C Compiler Version: 5.0
PCTS: 151-1 Version: 1.1 - 01/22/92
APTL: 0343 DataFocus Incorporated Date Issued: 05/28/92

Reference File #: HARS5240
Product Supplier: Harris Corporation
Product Tested: CX/UX Release: 5.3
System Supplier: Harris Corporation, Computer Systems Division
System Hardware: Night Hawk Model: HN4802
C Compiler: Harris C Compiler Release: 5.3
PCTS: 151-1 Version: 1.1 - 09/11/91
APTL: 0342 Mindcraft, Inc. Date Issued: 12/16/91

Reference File #: HPC0115
Product Supplier: Hewlett-Packard Company
Product Tested: HP-UX Version: 8.02 Release: 10/06/91
System Supplier: Hewlett-Packard Company
System Hardware: HP9000 Series 800 Model: 8675
C Compiler: HP C Compiler Version: A 08.71 Release: 10/06/91
PCTS: 151-1 Version: 1.1 - 05/21/92
APTL: 0346 Hewlett-Packard Conformance Test Center Date Issued: 09/09/92

Reference File #: HPC0303
Product Supplier: Hewlett-Packard Company
Product Tested: HP-UX Version: 8.02 Release: 10/06/91
System Supplier: Hewlett-Packard Company
System Hardware: HP9000 Series 800 Model: 8675
C Compiler: HP C Compiler Version: A 08.71 Release: 10/06/91
PCTS: 151-1 Version: 1.1 - 05/21/92
APTL: 0346 Hewlett-Packard Conformance Test Center Date Issued: 09/09/92

Reference File #: HPC0535
Product Supplier: Hewlett-Packard Company
System Supplier: Hewlett-Packard Company
System Hardware: Domain Series 4000 Model: DN4500
PCTS: 151-1 Version: 1.1 - 05/21/92
APTL: 0346 Hewlett-Packard Conformance Test Center Date Issued: 09/02/92

Reference File #: HPC0603
Product Supplier: Hewlett-Packard Company
System Supplier: Hewlett-Packard Company
System Hardware: HP9000 Series 700 Model: 735
PCTS: 151-1 Version: 1.1 - 05/21/92
APTL: 0346 Hewlett-Packard Conformance Test Center Date Issued: 02/19/93
NIST POSIX VALIDATED PRODUCTS, Continued

Reference File #: HPC1581
Product Supplier: Hewlett-Packard Company
Product Tested: HP-UX Version: 8.02 Release: 10/06/91
System Supplier: Hewlett-Packard Company
System Hardware: HP9000 Series 800 Model: 827S
C Compiler: HP C Compiler Version: A 08.71 Release: 10/06/91
PCTS: 151-1 Version: 1.1 - 05/21/92
APTL: 0342 Mindcraft, Inc. Date Issued: 12/08/92

Reference File #: HPC1992
Product Supplier: Hewlett-Packard Company
System Supplier: Hewlett-Packard Company
System Hardware: HP9000 Series 800 Model: 827S
C Compiler: HP C Compiler Version: A 08.71 Release: 10/06/91
PCTS: 151-1 Version: 1.1 - 05/21/92
APTL: 0342 Mindcraft, Inc. Date Issued: 12/08/92

Reference File #: HPC2540
Product Supplier: Hewlett-Packard Company
System Supplier: Hewlett-Packard Company
System Hardware: HP9000 Series 700 Model: 720
PCTS: 151-1 Version: 1.1 - 09/11/91
APTL: 0346 Hewlett-Packard POSIX Conformance Test Center Date Issued: 01/29/92

Reference File #: HPC2698
Product Supplier: Hewlett-Packard Company
Product Tested: HP-UX Version: 8.02 Release: 10/06/91
System Supplier: Hewlett-Packard Company
System Hardware: Domain Series 400 Model: 433s
PCTS: 151-1 Version: 1.1 - 05/21/92
APTL: 0346 Hewlett-Packard POSIX Conformance Test Center Date Issued: 09/2/92

Reference File #: HPC3574
Product Supplier: Hewlett-Packard Company
System Supplier: Hewlett-Packard Company
System Hardware: HP9000 Series 400 Model: 433S
C Compiler: HP C Compiler Version: B2371B.08.00 Internal Revision 70.2 Release: October 7, 1992
PCTS: 151-1 Version: 1.1 - 05/21/92
APTL: 0342 Mindcraft, Inc. Date Issued: 2/19/93

Reference File #: HPC3570
Product Supplier: Hewlett-Packard Company
Product Tested: HP-UX Version: 8.02 Release: 10/06/91
System Supplier: Hewlett-Packard Company
System Hardware: HP9000 Series 800 Model: 847S
C Compiler: HP C Compiler Version: A 08.71 Release: 10/06/91
PCTS: 151-1 Version: 1.1 - 05/21/92
APTL: 0342 Mindcraft, Inc. Date Issued: 12/08/92

Reference File #: HPC3679
Product Supplier: Hewlett-Packard Company
System Supplier: Hewlett-Packard Company
System Hardware: HP9000 Series 800 Model: 847S
C Compiler: HP C Compiler Version: A 08.71 Release: 10/06/91
PCTS: 151-1 Version: 1.1 - 05/21/92
APTL: 0342 Mindcraft, Inc. Date Issued: 12/08/92

Reference File #: HPC3667
Product Supplier: Hewlett-Packard Company
System Supplier: Hewlett-Packard Company
System Hardware: HP9000 Series 800 Model: 847S
C Compiler: HP C Compiler Version: A 08.71 Release: 10/06/91
PCTS: 151-1 Version: 1.1 - 05/21/92
APTL: 0342 Mindcraft, Inc. Date Issued: 12/08/92

Reference File #: HPC6391
Product Supplier: Hewlett-Packard Company
System Supplier: Hewlett-Packard Company
System Hardware: HP9000 Series 400 Model: 400S
PCTS: 151-1 Version: 1.1 - 01/22/92
APTL: 0346 Hewlett-Packard POSIX Conformance Test Center Date Issued: 04/17/92

Reference File #: HPC6906
Product Supplier: Hewlett-Packard Company
System Supplier: Hewlett-Packard Company
System Hardware: HP9000 Series 700 Model: 715
C Compiler: HP C Compiler Version: A 08.71 Release: 10/06/91
PCTS: 151-1 Version: 1.1 - 05/21/92
APTL: 0342 Mindcraft, Inc. Date Issued: 12/08/92

Reference File #: HPC7051
Product Supplier: Hewlett-Packard Company
System Supplier: Hewlett-Packard Company
System Hardware: HP9000 Series 800 Model: 847S
C Compiler: HP C Compiler Version: A 08.71 Release: 10/06/91
PCTS: 151-1 Version: 1.1 - 05/21/92
APTL: 0342 Mindcraft, Inc. Date Issued: 12/08/92
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<td>HPC8058</td>
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<td>INT4675</td>
<td>Product Tested: CLIX Version: 06.02.01 Release: 3.1</td>
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<td>LNX3076</td>
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NIST POSIX VALIDATED PRODUCTS, Continued

Reference File #: NCR0554
Product Supplier: NCR Corporation
Product Tested: NCR UNIX System V Ver: Release 4 Rel: 4.0.4
System Supplier: NCR Corporation
System Hardware: NCR 3B2 R3 Series Model: 3B2/1000 R3
(Military ID: 3B2/600 GR)
C Compiler: 3B2/RISC C Development System Release: 1.1
PCTS: 151-1 Version: 1.1 - 05/21/92
APTL: 0343 DataFocus, Inc. Date issued: 12/09/92

Reference File #: NCR1448
Product Supplier: NCR Corporation
Product Tested: NCR UNIX System V Release 4 MP-RAS, Rel 2
Version: SVR4 Release: 2
System Supplier: NCR Corporation
System Hardware: System 3000 Model: 3455
C Compiler: NCR C Development Toolkit Release: 2
PCTS: 151-1 Version: 1.1 - 05/21/92
APTL: 0343 DataFocus, Inc. Date issued: 10/08/93

Reference File #: NCR2047
Product Supplier: NCR Corporation
Product Tested: NCR System V Release 4 MP-RAS, Rel 2 Version:
SVR4 Release: 2
System Supplier: NCR Corporation
System Hardware: System 3000 Model: 3447
C Compiler: NCR C Development Toolkit Release: 2
PCTS: 151-1 Version: 1.1 - 01/22/92
APTL: 0343 DataFocus, Inc. Date issued: 06/26/92

Reference File #: NCR2805
Product Supplier: NCR Corporation
Product Tested: NCR System V Release 4 MP-RAS, Rel 2 Version:
SVR4 Release: 2
System Supplier: NCR Corporation
System Hardware: System 3000 Model: 3450
C Compiler: NCR C Development Toolkit Release: 2
PCTS: 151-1 Version: 1.1 - 01/22/92
APTL: 0343 DataFocus, Inc. Date issued: 06/26/92

Reference File #: NCR3061
Product Supplier: NCR Corporation
Product Tested: NCR UNIX System V Release 4 MP-RAS, Rel 2 Version:
SVR4 Release: 2
System Supplier: NCR Corporation
System Hardware: System 3000 Model: 3555
C Compiler: NCR C Development Toolkit Release: 2
PCTS: 151-1 Version: 1.1 - 05/21/92
APTL: 0343 DataFocus, Inc. Date issued: 10/08/93

Reference File #: NCR3331
Product Supplier: NCR Corporation
Product Tested: NCR UNIX System V Release 4 MP-RAS, Rel 2 Version:
SVR4 Release: 2
System Supplier: NCR Corporation
System Hardware: System 3000 Model: 3345
C Compiler: NCR C Development Toolkit Release: 2
PCTS: 151-1 Version: 1.1 - 01/22/92
APTL: 0343 DataFocus, Inc. Date issued: 06/26/92

Reference File #: NCR4518
Product Supplier: NCR Corporation
Product Tested: NCR UNIX System V Release 4 MP-RAS, Rel 2 Version:
SVR4 Release: 2
System Supplier: NCR Corporation
System Hardware: System 3000 Model: 3550
C Compiler: NCR C Development Toolkit Release: 2
PCTS: 151-1 Version: 1.1 - 01/22/92
APTL: 0343 DataFocus, Inc. Date issued: 06/26/92

Reference File #: NCR5533
Product Supplier: NCR Corporation
Product Tested: NCR UNIX System V Release 4 MP-RAS, Rel 2
Version: SVR4 Release: 2
System Supplier: NCR Corporation
System Hardware: System 3000 Model: 3520
C Compiler: NCR C Development Toolkit Release: 2
PCTS: 151-1 Version: 1.1 - 05/21/92
APTL: 0343 DataFocus, Inc. Date issued: 10/08/93

Reference File #: NCR7380
Product Supplier: NCR Corporation
Product Tested: NCR UNIX System V Release 4.0 Version 3.1
Version: 3.1 Release: 4.0
System Supplier: NCR Corporation
System Hardware: System Hardware: StarServer E Model: Release 3
C Compiler: Optimized C Compiler Version: 5.0
PCTS: 151-1 Version: 1.1 - 05/21/92
APTL: 0343 DataFocus, Inc. Date issued: 03/10/93

Reference File #: NCR7549
Product Supplier: NCR Corporation
Product Tested: NCR UNIX System V Release 4 MP-RAS, Rel 2
Version: SVR4 Release: 2
System Supplier: NCR Corporation
System Hardware: System 3000 Model: 3525
C Compiler: NCR C Development Toolkit Release: 2
PCTS: 151-1 Version: 1.1 - 05/21/92
APTL: 0343 DataFocus, Inc. Date issued: 10/08/93

Reference File #: NXT0623
Product Supplier: NeXt Computer, Inc.
Product Tested: NEXTSTEP Version: 3.2 Release: November 5, 1993 (with POSIX for NEXTSTEP version 1.0)
System Supplier: NeXt Computer, Inc.
System Hardware: NeXtstation Model: Color Turbo
C Compiler: NEXTSTEP DEVELOPER Version: 3.2 Release: November 5, 1993
PCTS: 151-1 Version: 1.1 - 05/21/92
APTL: 0343 Mindcraft, Inc. Date issued: 10/08/93

Reference File #: PYR1271
Product Supplier: Pyramid Technology Corporation
Product Tested: OSX Version: 5.1-92a023 Release: OS2 422s
System Supplier: Pyramid Technology Corporation
System Hardware: MIServer Model: MIS-2T
C Compiler: att cc Version: 5.1
PCTS: 151-1 Version: 1.1 - 01/22/92
APTL: 0343 DataFocus Incorporated Date issued: 05/28/92

Reference File #: PYR3067
Product Supplier: Pyramid Technology Corporation
Product Tested: DataCenter/OSX Version: dcosx Release: 1.1-92c027
System Supplier: Pyramid Technology Corporation
System Hardware: MIServer Model: 2S
C Compiler: DataCenter/OSX C Compiler Release: 1.1-92c027
PCTS: 151-1 Version: 1.1 - 05/21/92
APTL: 0343 DataFocus Incorporated Date issued: 09/09/92

Reference File #: PYR5233
Product Supplier: Pyramid Technology Corporation
Product Tested: DataCenter/OSX Version: dcosx Release: 1.1-92c027
System Supplier: Pyramid Technology Corporation
System Hardware: MIServer Model: 12S
C Compiler: DataCenter/OSX C Compiler Release: 1.1-92c027
PCTS: 151-1 Version: 1.1 - 05/21/92
APTL: 0343 DataFocus Incorporated Date issued: 10/05/92
### NIST POSIX VALIDATED PRODUCTS, Continued

|--------------------------|----------------------------------------------------------------------------------------------------------|
Reference File #: SUN1442
Product Supplier: Sun Microsystems Computer Corporation, Inc.
Product Tested: Solaris Version: 2.2 Release: May 28, 1993
System Supplier: Sun Microsystems Computer Corporation, Inc.
System Hardware: SPARCstation LX Model: 4/30
PCTS: 151-1 Version: 1.1 - 05/21/92
APTL: 0342 Mindcraft, Inc. Date Issued: 05/28/93

Reference File #: SUN2031
Product Supplier: Sun Microsystems Computer Corporation, Inc.
Product Tested: Solaris Version: 2.1 Release: August 4, 1992
System Supplier: Sun Microsystems Computer Corporation, Inc.
System Hardware: SunWorkstation 4/30 Model: 4/30
C Compiler: Sun C Compiler Version: 2.0 Release: June 30, 1992
PCTS: 151-1 Version: 1.1 - 05/21/92
APTL: 0342 Mindcraft, Inc. Date Issued: 10/08/92

Reference File #: SUN2241
Product Supplier: SunSoft, Inc.
Product Tested: Solaris Version: 2.0 Release: June 1992
System Supplier: Sun Microsystems Computer Corporation, Inc.
System Hardware: SPARCstation 2 Model: 4/75
C Compiler: Sun C Compiler Version: 2.0 Release: May 20 1992
PCTS: 151-1 Version: 1.1 - 01/22/92
APTL: 0342 Mindcraft, Inc. Date Issued: 07/02/92

Reference File #: SUN2727
Product Supplier: Sun Microsystems Computer Corporation, Inc.
Product Tested: Solaris Version: 2.1 Release: December 7, 1992
System Supplier: Sun Microsystems Computer Corporation, Inc.
System Hardware: SPARCserver 10 Model: 42
PCTS: 151-1 Version: 1.1 - 05/21/92
APTL: 0342 Mindcraft, Inc. Date Issued: 01/07/93

Reference File #: SUN2930
Product Supplier: Sun Microsystems Computer Corporation, Inc.
Product Tested: Solaris Version: 2.2 Release: May 28, 1993
System Supplier: Sun Microsystems Computer Corporation, Inc.
System Hardware: SPARCstation 2 Model: 4/75
PCTS: 151-1 Version: 1.1 - 09/21/92
APTL: 0342 Mindcraft, Inc. Date Issued: 05/28/93

Reference File #: SUN3129
Product Supplier: SunSoft, Inc.
Product Tested: Interactive Unix Operating System V/386 Version: 3.0.1 Release: 3.2
System Supplier: Compaq Computer Corporation
System Hardware: Desk Pro Model: 386/20E
PCTS: 151-1 Version: 1.1 - 05/21/92
APTL: 0345 UniSoft Corporation Date Issued: 9/18/92

Reference File #: SUN3272
Product Supplier: Sun Microsystems Computer Corporation, Inc.
Product Tested: Solaris Version: 2.2 Release: May 28, 1993
System Supplier: Sun Microsystems Computer Corporation, Inc.
System Hardware: SPARCserver 10 Model: 54
PCTS: 151-1 Version: 1.1 - 05/21/92
APTL: 0342 Mindcraft, Inc. Date Issued: 05/28/93

Reference File #: SUN3402
Product Supplier: Sun Microsystems Computer Corporation, Inc.
Product Tested: Solaris Version: 2.1 Release: August 4, 1992
System Supplier: RDI
System Hardware: BriteLinx Model: IPX Color Laptop Workstation
C Compiler: Sun C Compiler Version: 2.0 Release: June 30, 1992
PCTS: 151-1 Version: 1.1 - 05/21/92
APTL: 0342 Mindcraft, Inc. Date Issued: 10/16/92

Reference File #: SUN3403
Product Supplier: SunSoft, Inc.
Product Tested: Interactive Unix Operating System V/386 Version: 3.0.1 Release: 3.2
System Supplier: Alpha Systems Lab
System Hardware: SunOS4.0.3 Model: ASL433
C Compiler: Interactive Unix Software Development System Version: 3.0
PCTS: 151-1 Version: 1.1 - 05/21/92
APTL: 0345 UniSoft Corporation Date Issued: 10/05/92

Reference File #: SUN4529
Product Supplier: SunSoft, Inc.
System Supplier: Sun Microsystems Computer Corporation, Inc.
System Hardware: SPARCclassic Model: 4/15
PCTS: 151-1 Version: 1.1 - 05/21/92
APTL: 0342 Mindcraft, Inc. Date Issued: 10/14/93

Reference File #: SUN5382
Product Supplier: SunSoft, Inc.
Product Tested: Solaris Version: 1.0.1 Release: PC
System Supplier: Sun Microsystems Computer Corporation, Inc.
System Hardware: SPARCstation 4 Model: GX
PCTS: 151-1 Version: 1.1 - 05/21/92
APTL: 0343 DataFocus Incorporated Date Issued: 09/02/92

Reference File #: SUN5684
Product Supplier: Sun Microsystems Computer Corporation, Inc.
Product Tested: Solaris Version: 2.1 Release: December 7, 1992
System Supplier: Sun Microsystems Computer Corporation, Inc.
System Hardware: SPARCclassic Model: 4/15
C Compiler: Sun C Compiler Version: 2.0.1 Release: October 3, 1992
PCTS: 151-1 Version: 1.1 - 05/21/92
APTL: 0342 Mindcraft, Inc. Date Issued: 10/08/92

Reference File #: SUN5782
Product Supplier: Sun Microsystems Computer Corporation, Inc.
Product Tested: Solaris Version: 2.1 Release: August 4, 1992
System Supplier: Sun Microsystems Computer Corporation, Inc.
System Hardware: SPARCserver 10 Model: 30
C Compiler: Sun C Compiler Version: 2.0 Release: June 30, 1992
PCTS: 151-1 Version: 1.1 - 05/21/92
APTL: 0342 Mindcraft, Inc. Date Issued: 10/08/92

Reference File #: SUN5790
Product Supplier: Sun Microsystems Computer Corporation, Inc.
Product Tested: Solaris Version: 2.1 Release: August 4, 1992
System Supplier: Sun Microsystems Computer Corporation, Inc.
System Hardware: SPARCserver 10 Model: 41
C Compiler: Sun C Compiler Version: 2.0 Release: June 30, 1992
PCTS: 151-1 Version: 1.1 - 05/21/92
APTL: 0342 Mindcraft, Inc. Date Issued: 10/08/92
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<th>Product Supplier: Sun Microsystems Computer Corporation, Inc.</th>
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<th>Product Supplier: SunSoft, Inc.</th>
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<td>Product Tested: INTERACTIVE UNIX Operating System V/386</td>
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<th>Reference File #: SUN7188</th>
<th>Product Supplier: Sun Microsystems Computer Corporation, Inc.</th>
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<td>System Supplier: Sun Microsystems Computer Corporation, Inc.</td>
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<tr>
<td>System Hardware: SPARCstation Model: GX-30</td>
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<td>C Compiler: Solaris C Compiler Version: 1.1 Release: August 24, 1992</td>
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<td>PCTS: 151-1 Version: 1.1 - 05/21/92</td>
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<td>System Hardware: SPARCserver Model: 42</td>
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<td>C Compiler: Sun C Compiler Version: 2.0 Release: June 30, 1992</td>
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<td>PCTS: 151-1 Version: 1.1 - 05/21/92</td>
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<td>System Hardware: Unisys U 6000 Series Model: U 6000/35</td>
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<td>System Supplier: Unisys Corporation</td>
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<td>System Hardware: Unisys B-Series Model: NGEN</td>
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<td>PCTS: 151-1 Version: 1.1 - 07/01/91</td>
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<td>APTL: 0343 DataFocus Incorporated Date Issued: 09/17/91</td>
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Reference File #: UNV0528
Product Supplier: Univel
Product Tested: UnixWare Version: 1.0 Release: June 1993
System Supplier: Unisys Corporation
System Hardware: Unisys U 6000/DT Series/PW² Advantage Plus
Series Model: U6000/DT1 (MPE 4332)
C Compiler: Optimizing C Compilation Sys Ver: 2.0 Rel: Nov 2, 1992
PCTS: 151-1 Version: 1.1 - 05/21/92
APTL: 0342 Mindcraft, Inc. Date Issued: 05/18/93

Reference File #: UNV2014
Product Supplier: Univel
Product Tested: UnixWare Version: 1.0 Release: June 1993
System Supplier: Unisys Corporation
System Hardware: Unisys U 6000/DT Series/PW² Advantage Plus
Series Model: U6000/DT2 (MPE 4663)
PCTS: 151-1 Version: 1.1 - 05/21/92
APTL: 0342 Mindcraft, Inc. Date Issued: 05/18/93

Reference File #: UNV3055
Product Supplier: Univel
Product Tested: UnixWare Application Server Version: 1.0
Release: October 1992
System Supplier: AST Research, Inc.
System Hardware: Premium 486/33 Model: 3V
C Compiler: UnixWare Software Development Kit Version: 1.0
Release: October 1992
PCTS: 151-1 Version: 1.1 - 05/21/92
APTL: 0342 Mindcraft, Inc. Date Issued: 10/06/93

Reference File #: UNV3978
Product Supplier: Univel
Product Tested: UnixWare Version: 1.0 Release: June 1993
System Supplier: Unisys Corporation
System Hardware: Unisys PW² Advantage Series
Model: MPI 4336)
PCTS: 151-1 Version: 1.1 - 05/21/92
APTL: 0342 Mindcraft, Inc. Date Issued: 05/18/93

Reference File #: UNV9180
Product Supplier: Univel
Product Tested: UnixWare Personal Edition Version: 1.0 Release: October 1992
System Supplier: AST Research, Inc.
System Hardware: Premium 486/33 Model: 3V
C Compiler: UnixWare Software Development Kit Version: 1.0
Release: October 1992
PCTS: 151-1 Version: 1.1 - 05/21/92
APTL: 0342 Mindcraft, Inc. Date Issued: 10/08/93

Reference File #: USL3610
Product Supplier: UNIX System Laboratories, Inc.
Product Tested: UNIX® System V Release 4 for the Intel386™
Architecture Version: 4
Release: July 1991
System Supplier: AT&T
System Hardware: AT&T 6386/25 WGS Model: CPU 311 PC3B
PCTS: 151-1 Version: 1.1 - 09/11/91
APTL: 0342 Mindcraft, Inc. Date Issued: 12/12/91

Reference File #: USL6259
Product Supplier: UNIX System Laboratories, Inc.
Product Tested: UNIX® System V/386 Release 4 Version: 4.0T
Release: August 1992, with PATCH #1 (Package Date: 11/20/92)
System Supplier: AST Research, Inc.
System Hardware: Premium 486/33 Model: 3V
PCTS: 151-1 Version: 1.1 - 05/21/92
APTL: 0342 Mindcraft, Inc. Date Issued: 2/12/93
5.7 TESTING LABORATORIES AND VALIDATED PRODUCTS
for NIST POSIX (FIPS 151-2)

November 23, 1994

ACCREDITED NIST POSIX TESTING LABORATORIES

The National Voluntary Laboratory Accreditation Program (NVLAP) has accredited the following laboratories to test computer operating system interfaces for conformance with the Federal Information Processing Standard 151-2 (FIPS 151-2) using the NIST POSIX Conformance Test Suite (NIST-PCTS:151-2). FIPS 151-2 replaced FIPS 151-1 in its entirety on October 15, 1993. Only accredited laboratories may submit test reports to NIST/CSL for validation.

<table>
<thead>
<tr>
<th>Laboratory</th>
<th>Contact</th>
<th>Phone</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>BULL SA / Laboratoire POSIX</td>
<td>Mr. Georges Chardon</td>
<td>(33) 76 39 75 93</td>
<td><a href="mailto:lab@frec.bull.fr">lab@frec.bull.fr</a></td>
</tr>
<tr>
<td>DataFocus Incorporated</td>
<td>Mr. Matt Einsen</td>
<td>703-631-6770</td>
<td><a href="mailto:mte@datafocus.com">mte@datafocus.com</a></td>
</tr>
<tr>
<td>Mindcraft, Inc.</td>
<td>Mr. Bruce Weiner</td>
<td>415-323-9000</td>
<td><a href="mailto:sales@mindcraft.com">sales@mindcraft.com</a></td>
</tr>
<tr>
<td>PERENNIAL</td>
<td>Mr. Barry E. Hedquist</td>
<td>408-748-2900</td>
<td><a href="mailto:info@peren.com">info@peren.com</a></td>
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NIST POSIX VALIDATED PRODUCTS

The following products have been tested by an Accredited POSIX Testing Laboratory (APTL) using the official National Institute of Standards and Technology POSIX Conformance Test Suite (NIST-PCTS:151-2) for the Federal Information Processing Standards 151-2 (FIPS PUB 151-2). A Certificate of Validation has been issued by NIST/CSL. Additional information is available from NIST/CSL on conditional features supported, configuration details, and resolved test codes (if appropriate).

Information in this listing includes product information on the implementation, system tested and type of implementation. FIPS 151-2 supports three types of implementations, native, hosted, and cooperating. A native implementation "refers to an implementation of POSIX.1 that interfaces directly to an operating system kernel." A cooperating implementation "refers to an implementation of POSIX.1 that interfaces directly to an operating system kernel but the load modules are not produceable on this implementation." A hosted implementation "refers to an implementation of POSIX.1 that is accomplished through interfaces from the POSIX.1 services to some alternate form of operating system kernel services."

Information is also provided on the following primary conditional features: General Terminal Interface devices (GTI), Mountable File System (MFS), Modem Control (MC), and Appropriate Privileges (AP). If a Certificate of Validation has been corrected or amended there are two issue dates, the original date [in brackets] and the reissue date, listed for the product.
### PRODUCT SUPPLIERS

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<th>Company</th>
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<td>Amdahl Corporation</td>
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<td>AT&amp;T Global Information Solutions</td>
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<td>BULL S.A.</td>
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<td>Cray Research Superservers, Inc.</td>
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<td>Data General Corporation</td>
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<td>Digital Equipment Corporation</td>
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<td>Hewlett-Packard Company</td>
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<td>The Santa Cruz Operation, Inc.</td>
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### SYSTEM SUPPLIERS

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### NIST POSIX Validated Products, Continued

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| 151-2AMDO01 | 03/18/94 | Type: Native | Amdahl Corporation | Product: UTS Version 4 Release 2 | PCD: UTS 4.2 POSIX.1 and FIPS 151-2 Conformance Document
GTI - NOT Provided by Product
MC - NOT Provided by Product
MFS - Supported by Product
AP - Supported by Product
Computer Hardware Supplier: Amdahl Corporation
Computer Hardware Product: Amdahl 5995M-4550
C Compiler: Amdahl C, Version 2.0
APTL: 0342 Mindcraft, Inc. |
| 151-2ATT001 | 04/03/95 | Type: Native | AT&T Global Information Solutions | Product: NCR UNIX SVR4 MP-RAS Enterprise Operating Environment, Release 2.03 | PCD: NCR UNIX SVR4 MP-RAS POSIX Conformance Document, February 1995
GTI - Not Provided by Product
MC - Supported by Product
MFS - Supported by Product
AP - Supported by Product
Computer Hardware Supplier: AT&T Global Information Solutions
Computer Hardware Product: AT&T GIS System 3000, Model 3600
C Compiler: NCR System 3000 C Development Toolkit, Release 2.03, with XPG4 Application Extension (XAE)
APTL: 0343 DataFocus Incorporated |
| 151-2ATT002 | 05/12/95 | Type: Native | AT&T Global Information Solutions | Product: NCR UNIX SVR4 MP-RAS, Release 2.03 | PCD: NCR UNIX SVR4 MP-RAS POSIX Conformance Document, February 1995
GTI - Not Provided by Product
MC - Supported by Product
MFS - Supported by Product
AP - Supported by Product
Computer Hardware Supplier: AT&T Global Information Solutions
Computer Hardware Product: AT&T GIS System 3000, Model 3575
C Compiler: NCR System 3000 C Development Toolkit, Release 2.03, with XPG4 Application Extension (XAE)
APTL: 0343 DataFocus Incorporated |
| 151-2ATT003 | 03/17/95 | Type: Native | AT&T Global Information Solutions | Product: NCR UNIX SVR4 MP-RAS, Release 2.03 | PCD: NCR UNIX SVR4 MP-RAS POSIX Conformance Document, February 1995
GTI - Supported by Product
MC - Supported by Product
MFS - Supported by Product
AP - Supported by Product
Computer Hardware Supplier: AT&T Global Information Solutions
Computer Hardware Product: AT&T GIS System 3000, Model 3525
C Compiler: NCR System 3000 C Development Toolkit, Release 2.03, with XPG4 Application Extension (XAE)
APTL: 0343 DataFocus Incorporated |
| 151-2ATT004 | 05/12/95 | Type: Native | AT&T Global Information Solutions | Product: NCR UNIX SVR4 MP-RAS, Release 2.03 | PCD: NCR UNIX SVR4 MP-RAS POSIX Conformance Document, February 1995
GTI - Supported by Product
MC - Supported by Product
MFS - Supported by Product
AP - Supported by Product
Computer Hardware Supplier: AT&T Global Information Solutions
Computer Hardware Product: AT&T GIS System 3000, Model 3455, with LifeKeeper, Version 1.0
C Compiler: NCR System 3000 C Development Toolkit, Release 2.03, with XPG4 Application Extension (XAE)
APTL: 0343 DataFocus Incorporated |
| 151-2ATT005 | 03/23/95 | Type: Native | AT&T Global Information Solutions | Product: NCR UNIX SVR4 MP-RAS, Release 2.03 | PCD: NCR UNIX SVR4 MP-RAS POSIX Conformance Document, February 1995
GTI - Supported by Product
MC - Supported by Product
MFS - Supported by Product
AP - Supported by Product
Computer Hardware Supplier: AT&T Global Information Solutions
Computer Hardware Product: AT&T GIS System 3000, Model 3455
C Compiler: NCR System 3000 C Development Toolkit, Release 2.03, with XPG4 Application Extension (XAE)
APTL: 0343 DataFocus Incorporated |
| 151-2BUL001 | 04/03/95 | Type: Native | BULL S.A. | Product: AIX™ version 4 release 1 with PTF 170690 and PTF U436839 | PCD: BULL DPX/20 POSIX1 Conformance document AIX Version 4.1 ref:66A270A000
GTI - Supported by Product
MC - Supported by Product
MFS - Supported by Product
AP - Supported by Product
Computer Hardware Supplier: BULL S.A.
Computer Hardware Product: DPX/20 ESCALA™ model D201
C Compiler: C for AIX Version 03.01.0001
APTL: 0373 BULL S.A. |
| 151-2CRA001 | 09/07/94 | Type: Native | Cray Research Superservers, Inc. | Product: Solaris 2.3 CRAY Version R Maintenance Update 1 with Patch 10647-03 | PCD: Cray Solaris 2.3 POSIX.1 Conformance Document
GTI - NOT Provided by Product
MC - Supported by Product
MFS - Supported by Product
AP - Supported by Product
Computer Hardware Supplier: Cray Research Superservers, Inc.
Computer Hardware Product: Cray SUPERSERVER 6400
C Compiler: Sun C Compiler Version 2.0.1, Released October 3, 1992
APTL: 0342 Mindcraft, Inc. |
GTI - NOT Provided by Product
MC - NOT Provided by Product
MFS - Supported by Product
AP - Supported by Product
Computer Hardware Supplier: Digital Equipment Corporation
Computer Hardware Product: DECSystem, Model 4000/810
Host Operating System Supplier: Digital Equipment Corporation
Host Operating System: OpenVMS AXP Version 1.5
C Compiler: DEC C Version 1, Release 3
APTL: 0343 DataFocus Incorporated |
GTI - Supported by Product
MC - NOT Provided by Product
MFS - Supported by Product
AP - Supported by Product
Computer Hardware Supplier: Digital Equipment Corporation
Computer Hardware Product: DEC 3000, Model 400
C Compiler: DEC OSF/1 C Compiler, Version 2.0
APTL: 0342 Mindcraft, Inc. |
NIST POSIX VALIDATED PRODUCTS, Continued

151-2DEC003 Issued: 08/05/94 Type: Hosted
Product Supplier: Digital Equipment Corporation
Product: POSIX for Open VMS AXP Version 2.0
PCD: POSIX 1003.1-1990 Conformance Document for Open VMS AXP, June 1994
GTI - Not Provided by Product MC - Not Provided by Product
MFS - Supported by Product AP - Supported by Product
Computer Hardware Supplier: Digital Equipment Corporation
Computer Hardware Product: DecSystem, Model 4000/610
Host Operating System Supplier: Digital Equipment Corporation
Host Operating System: OpenVMS AXP, Version 6.1
C Compiler: DEC C for OpenVMS AXP Version 4.0
APTL: 0343 DataFocus Incorporated

151-2DEC004 Issued: 08/05/94 Type: Hosted
Product Supplier: Digital Equipment Corporation
Product: POSIX for Open VMS VAX, Version 2.0
PCD: POSIX 1003.1-1990 Conformance Document for Open VMS AXP, June 1994
GTI - Not Provided by Product MC - Not Provided by Product
MFS - Supported by Product AP - Supported by Product
Computer Hardware Supplier: Digital Equipment Corporation
Computer Hardware Product: DecSystem, Model 4000-500
Host Operating System Supplier: Digital Equipment Corporation
Host Operating System: OpenVMS VAX, Version 6.1
C Compiler: DEC C for OpenVMS VAX Version 4.0
APTL: 0343 DataFocus Incorporated

151-2DEC005 Issued: 08/17/94 Type: Native
Product Supplier: Digital Equipment Corporation
Product: DEC OSF/1 Version 3.0, released August, 1994
PCD: DEC OSF/1 POSIX.1 Conformance Document (Order Number:AA-PS35C-TE)
GTI - Supported by Product MC - Not Provided by Product
MFS - Supported by Product AP - Supported by Product
Computer Hardware Supplier: Digital Equipment Corporation
Computer Hardware Product: DEC 2100 model A500MP
C Compiler: DEC OSF/1 C Compiler, Version 3.0
APTL: 0342 Mindcraft, Inc.

151-2DEC006 Issued: 06/02/95 Type: Native
Product Supplier: Digital Equipment Corporation
Product: Digital UNIX® 3.2c
PCD: DEC OSF/1 POSIX.1 Conformance Document (Order Number:AA-PS35C-TE)
GTI - Supported by Product MC - Not Provided by Product
MFS - Supported by Product AP - Supported by Product
Computer Hardware Supplier: Digital Equipment Corporation
Computer Hardware Product: AlphaStation 200 Model 4166
C Compiler: Digital UNIX® C Compiler V3.2c
APTL: 0342 Mindcraft, Inc.

151-2DGC001 Issued: 04/12/94 Type: Native
Product Supplier: Data General Corporation
Product: DG/US 5.4 Release 3.00 MU01
PCD: POSIX.1 Conformance Document for the DG/UX™ System
Revision 04, March 1994
GTI - Supported by Product MC - Supported by Product
MFS - Supported by Product AP - Supported by Product
Computer Hardware Supplier: Data General Corporation
Computer Hardware Product: Data General AVION AV8500 Model G70595
C Compiler: gcc 2.4.5.6
APTL: 0342 Mindcraft, Inc.

151-2HPC001 Issued: 05/12/94 Type: Native
Product Supplier: Hewlett-Packard Company
Product: HP-UX Release 9.09 with patches PHCO_3869, PHCO_4152, and PHKL_4149
GTI - Supported by Product MC - Supported by Product
MFS - Supported by Product AP - Supported by Product
Computer Hardware Supplier: Hewlett-Packard Company
Computer Hardware Product: Series 9000 Model 755
C Compiler: HP C Compiler Version A.09.33
APTL: 0342 Mindcraft, Inc.

151-2HPC002 Issued: 05/12/94 Type: Native
Product Supplier: Hewlett-Packard Company
Product: HP-UX Release 9.09 with patches PHCO_3869, PHCO_4152, and PHKL_4149
GTI - Supported by Product MC - Supported by Product
MFS - Supported by Product AP - Supported by Product
Computer Hardware Supplier: Hewlett-Packard Company
Computer Hardware Product: Series 9000 Model 725
C Compiler: HP C Compiler Version A.09.33
APTL: 0342 Mindcraft, Inc.

151-2HPC003 Issued: 06/01/94 Type: Native
Product Supplier: Hewlett-Packard Company
Product: HP-UX Release 9.05 with patches PHKL_4110, and PHNE_4111
GTI - Supported by Product MC - Supported by Product
MFS - Supported by Product AP - Supported by Product
Computer Hardware Supplier: Hewlett-Packard Company
Computer Hardware Product: Series 9000 Model 735
C Compiler: HP C Compiler Version A.09.33
APTL: 0342 Mindcraft, Inc.

151-2HPC004 Issued: 06/01/94 Type: Native
Product Supplier: Hewlett-Packard Company
Product: HP-UX Release 9.05 with patches PHKL_4110, and PHNE_4111
GTI - Supported by Product MC - Supported by Product
MFS - Supported by Product AP - Supported by Product
Computer Hardware Supplier: Hewlett-Packard Company
Computer Hardware Product: Series 9000 Model 725
C Compiler: HP C Compiler Version A.09.33
APTL: 0342 Mindcraft, Inc.

151-2HPC005 Issued: 07/01/94 Type: Native
Product Supplier: Hewlett-Packard Company
Product: HP-UX 10.00.51
GTI - Supported by Product MC - Supported by Product
MFS - Supported by Product AP - Supported by Product
Computer Hardware Supplier: Hewlett-Packard Company
Computer Hardware Product: Series 9000 Model 770
C Compiler: HP C Compiler Version X.10.23
APTL: 0342 Mindcraft, Inc.
NIST POSIX VALIDATED PRODUCTS, Continued

151-2HPC006 Issued: 07/01/94 Type: Native
Product Supplier: Hewlett-Packard Company
Product: HP-UX 10.00.S1
G1I - Supported by Product MC - Supported by Product
MFS - Supported by Product AP - Supported by Product
Computer Hardware Supplier: Hewlett-Packard Company
Computer Hardware Product: Series 9000 Model 712
C Compiler: HP C Compiler Version X.10.23
APTL: 0342 Mindcraft, Inc.

151-2HPC007 Issued: 07/01/94 Type: Native
Product Supplier: Hewlett-Packard Company
Product: HP-UX 10.09.S1
G1I - Supported by Product MC - Supported by Product
MFS - Supported by Product AP - Supported by Product
Computer Hardware Supplier: Hewlett-Packard Company
Computer Hardware Product: Series 9000 Model 712
C Compiler: HP C Compiler Version X.10.18
APTL: 0342 Mindcraft, Inc.

151-2HPC008 Issued: 07/01/94 Type: Native
Product Supplier: Hewlett-Packard Company
Product: HP-UX 10.09.S1
G1I - Supported by Product MC - Supported by Product
MFS - Supported by Product AP - Supported by Product
Computer Hardware Supplier: Hewlett-Packard Company
Computer Hardware Product: Series 9000 Model 770
C Compiler: HP C Compiler Version X.10.18
APTL: 0342 Mindcraft, Inc.

151-2HPC009 Issued: 03/02/95 Type: Native
Product Supplier: Hewlett-Packard Company
Product: HP-UX Release 10.00
G1I - Supported by Product MC - Supported by Product
MFS - Supported by Product AP - Supported by Product
Computer Hardware Supplier: Hewlett-Packard Company
Computer Hardware Product: 9000 Series 700 Model J210
C Compiler: HP C Compiler Version A.10.03
APTL: 0342 Mindcraft, Inc.

151-2HPC010 Issued: 03/02/95 Type: Native
Product Supplier: Hewlett-Packard Company
Product: HP-UX Release 10.00
G1I - Supported by Product MC - Supported by Product
MFS - Supported by Product AP - Supported by Product
Computer Hardware Supplier: Hewlett-Packard Company
Computer Hardware Product: 9000/770 J200
C Compiler: HP C Compiler Version A.10.03
APTL: 0342 Mindcraft, Inc.

151-2HPC011 Issued: 03/02/95 Type: Native
Product Supplier: Hewlett-Packard Company
Product: HP-UX Release 10.00
G1I - Supported by Product MC - Supported by Product
MFS - Supported by Product AP - Supported by Product
Computer Hardware Supplier: Hewlett-Packard Company
Computer Hardware Product: 9000/829 K400
C Compiler: HP C Compiler Version A.10.03
APTL: 0342 Mindcraft, Inc.

151-2IBM001 Issued: 03/08/94 Type: Native
Product Supplier: International Business Machines Corporation
Product: MVS/ESA 4.3 OpenEdition 1.0
PCD: OpenEdition MVS POSIX 1 Conformance Document, Document Number SC23-3011-00
G1I - NOT Provided by Product MC - NOT Provided by Product
MFS - Supported by Product AP - Supported by Product
Computer Hardware Supplier: International Business Machines Corporation
Computer Hardware Product: ES/9000-570
C Compiler: IBM SAA AD/Cycle® C/370 Version 1 Release 2
APTL: 0342 Mindcraft, Inc.

151-2IBM002 Issued: 02/17/94 Type: Native
Product Supplier: International Business Machines Corporation
Product: AIX Version 3.2.5 for RISC System/6000 with PTFs: U423984, U424399, U424507, U424590, U425456, U424587, U425984, U425988, U425997, U426001, U426014, U425858
PCD: AIX Version 3.2 POSIX Conformance Document
G1I - Supported by Product MC - Supported by Product
MFS - Supported by Product AP - Supported by Product
Computer Hardware Supplier: International Business Machines Corporation
Computer Hardware Product: RISC System/6000, Model 990
C Compiler: XLC Version 1, Release 3
APTL: 0342 Mindcraft, Inc.

151-2IBM003 Issued: 02/17/94 Type: Native
Product Supplier: International Business Machines Corporation
Product: AIX Version 3.2.5 for RISC System/6000 with PTFs: U423984, U424399, U424507, U424590, U425456, U424587, U425984, U425988, U425997, U426001, U426014, U425858
PCD: AIX Version 3.2 POSIX Conformance Document
G1I - Supported by Product MC - Supported by Product
MFS - Supported by Product AP - Supported by Product
Computer Hardware Supplier: International Business Machines Corporation
Computer Hardware Product: RISC System/6000, Model 250
C Compiler: XLC Version 1, Release 3
APTL: 0342 Mindcraft, Inc.

151-2IBM004 Issued: 02/17/94 Type: Native
Product Supplier: International Business Machines Corporation
Product: AIX Version 3.2.5 for RISC System/6000 with PTFs: U423984, U424399, U424507, U424590, U425456, U424587, U425984, U425988, U425997, U426001, U426014, U425858
PCD: AIX Version 3.2 POSIX Conformance Document
G1I - Supported by Product MC - Supported by Product
MFS - Supported by Product AP - Supported by Product
Computer Hardware Supplier: International Business Machines Corporation
Computer Hardware Product: RISC System/6000, Model 360
C Compiler: XLC Version 1, Release 3
APTL: 0342 Mindcraft, Inc.
NIST POSIX VALIDATED PRODUCTS, Continued

151-2IBM005 Issued: 04/29/94 Type: Native
Product Supplier: International Business Machines Corporation
Product: AIX Version 3.2.5 for RISC System/6000 with PTFs:
U423984, U424399, U425456, U425984, U425986,
U425997, U426001, U426014, U427208, U427727, U427892
PCD: AIX Version 3.2 POSIX Conformance Document, part number
GC23-2159-02, Third Edition
GTI - Supported by Product MC - Supported by Product
MFS - Supported by Product AP - Supported by Product
Computer Hardware Supplier: International Business Machines
Corporation
Computer Hardware Product: RISC System/6000, Model 230
C Compiler: XLC Version 1, Release 3
APTL: 0342 Mindcraft, Inc.

151-2IBM006 Issued: 04/29/94 Type: Native
Product Supplier: International Business Machines Corporation
Product: AIX Version 3.2.5 for RISC System/6000 with PTFs:
U423984, U424399, U425456, U425984, U425986,
U425997, U426001, U426014, U427208, U427727, U427892
PCD: AIX Version 3.2 POSIX Conformance Document, part number
GC23-2159-02, Third Edition
GTI - Supported by Product MC - Supported by Product
MFS - Supported by Product AP - Supported by Product
Computer Hardware Supplier: International Business Machines
Corporation
Computer Hardware Product: RISC System/6000, Model 570
C Compiler: XLC Version 1, Release 3
APTL: 0342 Mindcraft, Inc.

151-2IBM007 Issued: 11/08/94 Type: Native
Product Supplier: International Business Machines Corporation
Product: MVS/ESA 5.1.0
PCD: OpenEdition MVS POSIX.1 Conformance Document, Document
Number GC23-3011-02
GTI - Not Provided by Product MC - Not Provided by Product
MFS - Supported by Product AP - Supported by Product
Computer Hardware Supplier: International Business Machines
Corporation
Computer Hardware Product: ES/9000/610
C Compiler: IBM SAA AD/Cycle® C/370 Version 1 Release 2
APTL: 0342 Mindcraft, Inc.

151-2IBM008 Issued: 04/14/95 Type: Native
Product Supplier: International Business Machines Corporation
Product: AIX Version 4.1.2 for RISC System/6000 with APAR
IX49490
GTI - Supported by Product MC - Supported by Product
MFS - Supported by Product AP - Supported by Product
Computer Hardware Supplier: International Business Machines
Corporation
Computer Hardware Product: RISC System/6000 model 3BT
C Compiler: C for AIX version 3.1.1
APTL: 0342 Mindcraft, Inc.

151-2IBM009 Issued: 04/14/95 Type: Native
Product Supplier: International Business Machines Corporation
Product: AIX Version 4.1.2 for RISC System/6000 with APAR
EX49490
GTI - Supported by Product MC - Supported by Product
MFS - Supported by Product AP - Supported by Product
Computer Hardware Supplier: International Business Machines
Corporation
Computer Hardware Product: RISC System/6000 model 250
C Compiler: C for AIX version 3.1.1
APTL: 0342 Mindcraft, Inc.
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<th>C + + Optimizing Compiler Version</th>
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NIST POSIX VALIDATED PRODUCTS, Continued

151-2MSC0012 Issued: 11/17/94 Type: Co-operating Hosted
Product Supplier: Microsoft Corporation
Product: Microsoft® Windows NT® POSIX Subsystem Version 3.5
PCD: Microsoft® Windows NT® POSIX Subsystem POSIX
Conformance Document, February 1994
GTI - Not Provided by Product MC - Not Provided by Product
MFS - Not Provided by Product AP - Not Provided by Product
Computer Hardware Supplier: Intel Corporation
Computer Hardware Product: Intel Xpress Dual Pentium 66
Host & Development Operating System Supplier: Microsoft Corporation
Host & Development Operating System: Microsoft® Windows NT™
Server, Version 3.5
C Compiler: Microsoft® 32-bit C/C++ Optimizing Compiler, Version 8.50.4136 for 80x86
APTL: 0343 DataFocus, Inc.

151-2MSC0013 Issued: 11/17/94 Type: Co-operating Hosted
Product Supplier: Microsoft Corporation
Product: Microsoft® Windows NT® POSIX Subsystem Version 3.5
PCD: Microsoft® Windows NT® POSIX Subsystem POSIX
Conformance Document, February 1994
GTI - Not Provided by Product MC - Not Provided by Product
MFS - Not Provided by Product AP - Not Provided by Product
Computer Hardware Supplier: Intel Corporation
Computer Hardware Product: Intel Xpress i486DX33
Host & Development Operating System Supplier: Microsoft Corporation
Host & Development Operating System: Microsoft® Windows NT™
Server, Version 3.5
C Compiler: Microsoft® 32-bit C/C++ Optimizing Compiler, Version 8.50.4136 for 80x86
APTL: 0343 DataFocus, Inc.

151-2MSC0014 Issued: 11/17/94 Type: Co-operating Hosted
Product Supplier: Microsoft Corporation
Product: Microsoft® Windows NT® POSIX Subsystem Version 3.5
PCD: Microsoft® Windows NT® POSIX Subsystem POSIX
Conformance Document, February 1994
GTI - Not Provided by Product MC - Not Provided by Product
MFS - Not Provided by Product AP - Not Provided by Product
Computer Hardware Supplier: Intel Corporation
Computer Hardware Product: Classic R Plus i486DX/2/66
Host & Development Operating System Supplier: Microsoft Corporation
Host & Development Operating System: Microsoft® Windows NT™
Workstation, Version 3.5
C Compiler: Microsoft® 32-bit C/C++ Optimizing Compiler, Version 8.50.4136 for 80x86
APTL: 0343 DataFocus, Inc.

151-2MSC0015 Issued: 11/17/94 Type: Co-operating Hosted
Product Supplier: Microsoft Corporation
Product: Microsoft® Windows NT® POSIX Subsystem Version 3.5
PCD: Microsoft® Windows NT® POSIX Subsystem POSIX
Conformance Document, February 1994
GTI - Not Provided by Product MC - Not Provided by Product
MFS - Not Provided by Product AP - Not Provided by Product
Computer Hardware Supplier: Intel Corporation
Computer Hardware Product: Classic R Plus i486SX33
Host & Development Operating System Supplier: Microsoft Corporation
Host & Development Operating System: Microsoft® Windows NT™
Workstation, Version 3.5
C Compiler: Microsoft® 32-bit C/C++ Optimizing Compiler, Version 8.50.4136 for 80x86
APTL: 0343 DataFocus, Inc.

151-2NOV001 Issued: 05/03/94 Type: Native
Product Supplier: Novell, Inc.
Product: UnixWare™ Application Server Version 1.1 with UnixWare Update 1.1.1 and PTF604
PCD: UnixWare™ Programmer's Guide: POSIX.1 Conformance (First Edition)
GTI - Supported by Product MC - Supported by Product
MFS - Supported by Product AP - Supported by Product
Computer Hardware Supplier: AST Research, Inc.
Computer Hardware Product: Premium 468/33 model 3V
C Compiler: UnixWare™ SDK/Personal Utilities Version 1.1
APTL: 0342 Mindcraft, Inc.

151-2NOV002 Issued: 05/03/94 Type: Native
Product Supplier: Novell, Inc.
Product: UnixWare™ Personal Edition Version 1.1 with UnixWare Update 1.1.1 and PTF604
PCD: UnixWare™ Programmer's Guide: POSIX.1 Conformance (First Edition)
GTI - Supported by Product MC - Supported by Product
MFS - Supported by Product AP - Supported by Product
Computer Hardware Supplier: AST Research, Inc.
Computer Hardware Product: Premium 468/33 model 3V
C Compiler: UnixWare™ SDK/Personal Utilities Version 1.1
APTL: 0342 Mindcraft, Inc.

151-2NOV003 Issued: 10/21/94 Type: Native
Product Supplier: Novell, Inc.
Product: UnixWare™ Personal Edition Version 1.1.2, with PTF621
PCD: UnixWare™ Programmer's Guide: POSIX.1 Conformance (First Edition)
GTI - Supported by Product MC - Supported by Product
MFS - Supported by Product AP - Supported by Product
Computer Hardware Supplier: AT&T
Computer Hardware Product: Globalyst 515
C Compiler: UnixWare™ SDK/Personal Utilities Version 1.1
APTL: 0342 Mindcraft, Inc.

151-2NOV004 Issued: 10/25/94 Type: Native
Product Supplier: Novell, Inc.
Product: UnixWare™ Personal Edition Version 1.1.2, with PTF621 and
PCI SCSI driver 517-0002476
PCD: UnixWare™ Programmer's Guide: POSIX.1 Conformance (First Edition)
GTI - Supported by Product MC - Supported by Product
MFS - Supported by Product AP - Supported by Product
Computer Hardware Supplier: AT&T
Computer Hardware Product: Globalyst 600
C Compiler: UnixWare™ SDK/Personal Utilities Version 1.1
APTL: 0342 Mindcraft, Inc.

151-2NOV005 Issued: 10/25/94 Type: Native
Product Supplier: Novell, Inc.
Product: UnixWare™ Personal Edition Version 1.1.2, with PTF621 and
PCI SCSI driver 517-0002476
PCD: UnixWare™ Programmer's Guide: POSIX.1 Conformance (First Edition)
GTI - Supported by Product MC - Supported by Product
MFS - Supported by Product AP - Supported by Product
Computer Hardware Supplier: AT&T
Computer Hardware Product: Globalyst 550
C Compiler: UnixWare™ SDK/Personal Utilities Version 1.1
APTL: 0342 Mindcraft, Inc.
NIST POSIX VALIDATED PRODUCTS, Continued

151-2SCO001 Issued: 11/17/94 [10/21/94] Type: Native
Product Supplier: The Santa Cruz Operation, Inc.
Product: SCO UNIX®, Release 3.2, Version 4.2
PCD: SCO UNIX® System V/386 Release 3.2.4 POSIX.1 Conformance Document, October 1994
GTI - Supported by Product MC - Not Provided by Product
MFS - Supported by Product AP - Supported by Product
Computer Hardware Supplier: American Megatrends, Inc.
Computer Hardware Product: AMI SBS 6400 Super Voyager VLB-III, Intel 486DX2/66
C Compiler: SCO ODT Development System Release 3.0 C Compiler, with SCO XPG4 Supplement, Release 1.0
APTL: 0343 DataFocus, Inc.

151-2SCO002 Issued: 10/21/94 Type: Native
Product Supplier: The Santa Cruz Operation, Inc.
Product: SCO UNIX®, Release 3.2, Version 4.2
PCD: SCO UNIX® System V/386 Release 3.2.4 POSIX.1 Conformance Document, October 1994
GTI - Supported by Product MC - Not Provided by Product
MFS - Supported by Product AP - Supported by Product
Computer Hardware Supplier: Compaq Computer Corporation
Computer Hardware Product: Compaq ProLiant 2000, Model 5/66
C Compiler: SCO ODT Development System Release 3.0 C Compiler, with SCO XPG4 Supplement, Release 1.0
APTL: 0343 DataFocus, Inc.

151-2SCO003 Issued: 11/15/94 Type: Native
Product Supplier: The Santa Cruz Operation, Inc.
Product: SCO UNIX®, Release 3.2, Version 4.2, with SCO MPX
Multi-processor extension Release 3.0
PCD: SCO UNIX® System V/386 Release 3.2.4 POSIX.1 Conformance Document, October 1994
GTI - Supported by Product MC - Not Provided by Product
MFS - Supported by Product AP - Supported by Product
Computer Hardware Supplier: Compaq Computer Corporation
Computer Hardware Product: Compaq ProLiant 2000, Model 5/90
C Compiler: SCO ODT Development System Release 3.0 C Compiler, with SCO XPG4 Supplement, Release 1.0
APTL: 0343 DataFocus, Inc.

151-2SCO004 Issued: 11/15/94 Type: Native
Product Supplier: The Santa Cruz Operation, Inc.
Product: SCO UNIX®, Release 3.2, Version 4.2
PCD: SCO UNIX® System V/386 Release 3.2.4 POSIX.1 Conformance Document, October 1994
GTI - Supported by Product MC - Not Provided by Product
MFS - Supported by Product AP - Supported by Product
Computer Hardware Supplier: Compaq Computer Corporation
Computer Hardware Product: Compaq ProLiant 2000, Model 5/90
C Compiler: SCO ODT Development System Release 3.0 C Compiler, with SCO XPG4 Supplement, Release 1.0
APTL: 0343 DataFocus, Inc.

151-2SCO005 Issued: 11/15/94 Type: Native
Product Supplier: The Santa Cruz Operation, Inc.
Product: SCO UNIX®, Release 3.2, Version 4.2
PCD: SCO UNIX® System V/386 Release 3.2.4 POSIX.1 Conformance Document, October 1994
GTI - Supported by Product MC - Not Provided by Product
MFS - Supported by Product AP - Supported by Product
Computer Hardware Supplier: Compaq Computer Corporation
Computer Hardware Product: Compaq ProLiant 1000, Model 486DX2/66
C Compiler: SCO ODT Development System Release 3.0 C Compiler, with SCO XPG4 Supplement, Release 1.0
APTL: 0343 DataFocus, Inc.

151-2SCO006 Issued: 11/15/94 Type: Native
Product Supplier: The Santa Cruz Operation, Inc.
Product: SCO UNIX®, Release 3.2, Version 4.2
PCD: SCO UNIX® System V/386 Release 3.2.4 POSIX.1 Conformance Document, October 1994
GTI - Supported by Product MC - Not Provided by Product
MFS - Supported by Product AP - Supported by Product
Computer Hardware Supplier: American Megatrends, Inc.
Computer Hardware Product: AMI SBS 6400 Super Voyager VLB-III, Intel 486DX4/100
C Compiler: SCO ODT Development System Release 3.0 C Compiler, with SCO XPG4 Supplement, Release 1.0
APTL: 0343 DataFocus, Inc.

151-2SCO007 Issued: 11/23/94 Type: Native
Product Supplier: The Santa Cruz Operation, Inc.
Product: SCO UNIX®, Release 3.2, Version 4.2
PCD: SCO UNIX® System V/386 Release 3.2.4 POSIX.1 Conformance Document, October 1994
GTI - Supported by Product MC - Not Provided by Product
MFS - Supported by Product AP - Supported by Product
Computer Hardware Supplier: Microlog Corporation
Computer Hardware Product: Intel R100, Intel Pentium™/66
C Compiler: SCO ODT Development System Release 3.0 C Compiler, with SCO XPG4 Supplement, Release 1.0
APTL: 0343 DataFocus, Inc.

151-2SCO008 Issued: 11/23/94 Type: Native
Product Supplier: The Santa Cruz Operation, Inc.
Product: SCO UNIX®, Release 3.2, Version 4.2
PCD: SCO UNIX® System V/386 Release 3.2.4 POSIX.1 Conformance Document, October 1994
GTI - Not Provided by Product MC - Not Provided by Product
MFS - Supported by Product AP - Supported by Product
Computer Hardware Supplier: Tandem Computers Incorporated
Computer Hardware Product: 20-slot 48-port digital VRU, order number VR204801
C Compiler: SCO UNIX® Development System Release 3.2v4.2
APTL: 0342 Mindcraft, Inc.

151-2SCO009 Issued: 4/14/95 Type: Native
Product Supplier: The Santa Cruz Operation, Inc.
Product: SCO UNIX®, Release 3.2, Version 4.2
PCD: SCO UNIX® System V/386 Release 3.2.4 POSIX.1 Conformance Document, October 1994
GTI - Supported by Product MC - Not Provided by Product
MFS - Supported by Product AP - Supported by Product
Computer Hardware Supplier: ProUant
Computer Hardware Product: 48-port digital VRU, order number VR204801
C Compiler: SCO UNIX® Development System Release 3.2v4.2
APTL: 0342 Mindcraft, Inc.

151-2SEQ001 Issued: 04/12/94 Type: Native
Product Supplier: Sequent Computer Systems Inc.
Product: DYNIX/ptx Version 4.0.0
PCD: DYNIX/ptx POSIX.1 Conformance Specification Part Number 1003-49622-04
GTI - Supported by Product MC - Supported by Product
MFS - Supported by Product AP - Supported by Product
Computer Hardware Supplier: Sequent Computer Systems Inc.
Computer Hardware Product: Sequent Symmetry Systems SE20
C Compiler: ptx/C (Version 4.0.0)
APTL: 0342 Mindcraft, Inc.
NIST POSIX VALIDATED PRODUCTS, Continued

151-2SEQ002 Issued: 04/12/94 Type: Native
Product Supplier: Sequent Computer Systems Inc.
Product: DYNIX/pxt Version 2.1.1
PCD: DYNIX/pxt POSIX.1 Conformance Specification Part Number 1003-49622-03a
GTI - Supported by Product MC - Supported by Product
MFS - Supported by Product AP - Supported by Product
Computer Hardware Supplier: Sequent Computer Systems Inc.
Computer Hardware Product: Sequent Symmetry Systems SE60
C Compiler: ptx/C (Version 2.1.1)
APTL: 0342 Mindcraft, Inc.

151-2SGI001 Issued: 03/07/95 Type: Native
Product Supplier: Silicon Graphics, Inc.
Product: IRIX 5.3 with patches 278, 279, and 280
PCD: IRIX 5.3 POSIX.1 Conformance Document
GTI - Supported by Product MC - Not provided by product
MFS - Supported by Product AP - Supported by Product
Computer Hardware Supplier: Silicon Graphics, Inc.
Computer Hardware Product: Indigo 2
C Compiler: IRIX Development Option 5.3 (SC4-IDO-5.3)
APTL: 0342 Mindcraft, Inc.

151-2SGI002 Issued: 03/07/95 Type: Native
Product Supplier: Silicon Graphics, Inc.
Product: IRIX 5.3 with patches 278, 279, and 280
PCD: IRIX 5.3 POSIX.1 Conformance Document
GTI - Supported by Product MC - Not provided by product
MFS - Supported by Product AP - Supported by Product
Computer Hardware Supplier: Silicon Graphics, Inc.
Computer Hardware Product: Challenge L
C Compiler: IRIX Development Option 5.3 (SC4-IDO-5.3)
APTL: 0342 Mindcraft, Inc.

151-2SGI003 Issued: 03/07/95 Type: Native
Product Supplier: Silicon Graphics, Inc.
Product: IRIX 5.3 with patches 278, 279, and 280
PCD: IRIX 5.3 POSIX.1 Conformance Document
GTI - Supported by Product MC - Not provided by product
MFS - Supported by Product AP - Supported by Product
Computer Hardware Supplier: Sequent Computer Systems Inc.
Computer Hardware Product: Integrity NR4404
C Compiler: IRIX Development Option 5.3 (SC4-IDO-5.3)
APTL: 0342 Mindcraft, Inc.

151-2SGI004 Issued: 03/07/95 Type: Native
Product Supplier: Silicon Graphics, Inc.
Product: IRIX 5.3 with patches 278, 279, and 280
PCD: IRIX 5.3 POSIX.1 Conformance Document
GTI - Supported by Product MC - Not provided by product
MFS - Supported by Product AP - Supported by Product
Computer Hardware Supplier: Tandem Computers Incorporated
Computer Hardware Product: Integrity NR3401
C Compiler: IRIX Development Option 5.3 (SC4-IDO-5.3)
APTL: 0342 Mindcraft, Inc.

151-2SGI005 Issued: 03/07/95 Type: Native
Product Supplier: Silicon Graphics, Inc.
Product: IRIX 5.3 with patches 278, 279, and 280
PCD: IRIX 5.3 POSIX.1 Conformance Document
GTI - Supported by Product MC - Not provided by product
MFS - Supported by Product AP - Supported by Product
Computer Hardware Supplier: Tandem Computers Incorporated
Computer Hardware Product: Integrity NR401
C Compiler: IRIX Development Option 5.3 (SC4-IDO-5.3)
APTL: 0342 Mindcraft, Inc.

151-2SUN001 Issued: 12/23/93 Type: Native
Product Supplier: SunSoft, Inc.
Product: Solaris 2.3 with patch 101294-01
PCD: Solaris 2.3 Standards Conformance Guide, Chapter 5: POSIX.1 Part No: 801-5263-10
GTI - Supported by Product MC - Supported by Product
MFS - Supported by Product AP - Supported by Product
Computer Hardware Supplier: Sun Microsystems Computer Corporation, Inc.
Computer Hardware Product: SPARCstation 2000, model 2204
C Compiler: Sun C Compiler Version 2.0.1, Released Oct. 3, 1992
APTL: 0342 Mindcraft, Inc.

151-2SUN002 Issued: 12/23/93 Type: Native
Product Supplier: SunSoft, Inc.
Product: Solaris 2.3 with patch 101294-01
PCD: Solaris 2.3 Standards Conformance Guide, Chapter 5: POSIX.1 Part No: 801-5263-10
GTI - Supported by Product MC - Supported by Product
MFS - Supported by Product AP - Supported by Product
Computer Hardware Supplier: Sun Microsystems Computer Corporation, Inc.
Computer Hardware Product: SPARCstation 10SX, model 52
C Compiler: Sun C Compiler Version 2.0.1, Released Oct. 3, 1992
APTL: 0342 Mindcraft, Inc.

151-2SUN003 Issued: 12/23/93 Type: Native
Product Supplier: SunSoft, Inc.
Product: Solaris 2.3 with patch 101294-01
PCD: Solaris 2.3 Standards Conformance Guide, Chapter 5: POSIX.1 Part No: 801-5263-10
GTI - Supported by Product MC - Supported by Product
MFS - Supported by Product AP - Supported by Product
Computer Hardware Supplier: Sun Microsystems Computer Corporation, Inc.
Computer Hardware Product: SPARCstation 10, model 52
C Compiler: Sun C Compiler Version 2.0.1, Released Oct. 3, 1992
APTL: 0342 Mindcraft, Inc.

151-2SUN004 Issued: 12/23/93 Type: Native
Product Supplier: SunSoft, Inc.
Product: Solaris 2.3 with patch 101294-01
PCD: Solaris 2.3 Standards Conformance Guide, Chapter 5: POSIX.1 Part No: 801-5263-10
GTI - Supported by Product MC - Supported by Product
MFS - Supported by Product AP - Supported by Product
Computer Hardware Supplier: Sun Microsystems Computer Corporation, Inc.
Computer Hardware Product: SPARCserver 670MP, model 54
C Compiler: Sun C Compiler Version 2.0.1, Released Oct. 3, 1992
APTL: 0342 Mindcraft, Inc.

151-2SUN005 Issued: 3/30/94 Type: Native
Product Supplier: SunSoft, Inc.
Product: Solaris 2.3 Edition II with patch 101294-01 and 101498-02
PCD: Solaris 2.3 Standards Conformance Guide, Chapter 5: POSIX.1 Part No: 801-5263-11
GTI - Supported by Product MC - Supported by Product
MFS - Supported by Product AP - Supported by Product
Computer Hardware Supplier: Sun Microsystems Computer Corporation, Inc.
Computer Hardware Product: SPARCstation 5
C Compiler: Sun C Compiler Version 2.0.1, Released Oct. 3, 1992
APTL: 0342 Mindcraft, Inc.
151-2SUN006 Issued: 3/30/94 Type: Native
Product Supplier: SunSoft, Inc.
Product: Solaris 2.3 Edition II
PCD: Solaris 2.3 Standards Conformance Guide, Chapter 5: POSIX.1
Part No: 801-5263-11
GTI - Supported by Product MC - Supported by Product
MFS - Supported by Product AP - Supported by Product
Computer Hardware Supplier: Sun Microsystems Computer Corporation, Inc.
Computer Hardware Product: SPARCstation Voyager
C Compiler: Sun C Compiler Version 2.0.1, Released Oct. 3, 1992
APTL: 0342 Mindcraft, Inc.

151-2SUN007 Issued: 3/30/94 Type: Native
Product Supplier: SunSoft, Inc.
Product: Solaris 2.3 Release with patches 101294-01, 101318-27, and 101493-01
PCD: Solaris 2.3 Standards Conformance Guide, Chapter 5: POSIX.1
Part No: 801-5263-11
GTI - Supported by Product MC - Supported by Product
MFS - Supported by Product AP - Supported by Product
Computer Hardware Supplier: Sun Microsystems Computer Corporation, Inc.
Computer Hardware Product: SPARCstation 20, Model 502
C Compiler: Sun C Compiler Version 2.0.1, Released Oct. 3, 1992
APTL: 0342 Mindcraft, Inc.

151-2SUN008 Issued: 9/07/94 Type: Native
Product Supplier: SunSoft, Inc.
Product: The INTERACTIVE UNIX Operating System, Version 4.1
GTI - Supported by Product MC - Supported by Product
MFS - Supported by Product AP - Supported by Product
Computer Hardware Supplier: Compaq
Computer Hardware Product: Proliant 2000 Model 5/66-1
C Compiler: C Library C Version 2.0
APTL: 0342 Mindcraft, Inc.

151-2SUN009 Issued: 9/07/94 Type: Native
Product Supplier: SunSoft, Inc.
Product: Solaris 2.3 with patch 101294-01
PCD: Solaris 2.3 Standards Conformance Guide, Chapter 5: POSIX.1
Part No: 801-5263-11
GTI - Supported by Product MC - Supported by Product
MFS - Supported by Product AP - Supported by Product
Computer Hardware Supplier: Axil Workstations
Computer Hardware Product: Axil model 220 Professional
C Compiler: gcc version cygnum-2.3.3
APTL: 0342 Mindcraft, Inc.

151-2SUN010 Issued: 9/07/94 Type: Native
Product Supplier: SunSoft, Inc.
Product: Solaris 2.3 with patch 101294-01
PCD: Solaris 2.3 Standards Conformance Guide, Chapter 5: POSIX.1
Part No: 801-5263-11
GTI - Supported by Product MC - Supported by Product
MFS - Supported by Product AP - Supported by Product
Computer Hardware Supplier: Axil Workstations
Computer Hardware Product: Axil model 311-4.0
C Compiler: gcc version cygnum-2.3.3
APTL: 0342 Mindcraft, Inc.

151-2SUN011 Issued: 10/13/94 Type: Native
Product Supplier: SunSoft, Inc.
Product: Solaris 2.4
Part No: 801-6735-10
GTI - Supported by Product MC - Supported by Product
MFS - Supported by Product AP - Supported by Product
Computer Hardware Supplier: Sun Microsystems Computer Corporation
Computer Hardware Product: SPARCserver 1000
C Compiler: Sun C Compiler Version 2.0.1, Released Oct. 3, 1992
APTL: 0342 Mindcraft, Inc.

151-2SUN012 Issued: 10/13/94 Type: Native
Product Supplier: SunSoft, Inc.
Product: Solaris 2.4
Part No: 801-6735-10
GTI - Supported by Product MC - Supported by Product
MFS - Supported by Product AP - Supported by Product
Computer Hardware Supplier: Dell Computer Corporation
Computer Hardware Product: 466T
C Compiler: ProCompiler C Version 2.0.1 for x86
APTL: 0342 Mindcraft, Inc.

151-2SUN013 Issued: 10/13/94 Type: Native
Product Supplier: SunSoft, Inc.
Product: Solaris 2.4
Part No: 801-6735-10
GTI - Supported by Product MC - Supported by Product
MFS - Supported by Product AP - Supported by Product
Computer Hardware Supplier: Sun Microsystems Computer Corporation
Computer Hardware Product: SPARCstation LX model 4/30
C Compiler: Sun C Compiler Version 2.0.1, Released Oct. 3, 1992
APTL: 0342 Mindcraft, Inc.

151-2SUN014 Issued: 10/13/94 Type: Native
Product Supplier: SunSoft, Inc.
Product: Solaris 2.4
Part No: 801-6735-10
GTI - Supported by Product MC - Supported by Product
MFS - Supported by Product AP - Supported by Product
Computer Hardware Supplier: Sun Microsystems Computer Corporation
Computer Hardware Product: SPARCserver 670MP
C Compiler: Sun C Compiler Version 2.0.1, Released Oct. 3, 1992
APTL: 0342 Mindcraft, Inc.

151-2SUN015 Issued: 10/13/94 Type: Native
Product Supplier: SunSoft, Inc.
Product: Solaris 2.4
Part No: 801-6735-10
GTI - Supported by Product MC - Supported by Product
MFS - Supported by Product AP - Supported by Product
Computer Hardware Supplier: Sun Microsystems Computer Corporation
Computer Hardware Product: SPARCstation 10, model 52
C Compiler: Sun C Compiler Version 2.0.1, Released Oct. 3, 1992
APTL: 0342 Mindcraft, Inc.
NIST POSIX VALIDATED PRODUCTS, Continued

151-2SUN016 Issued: 10/13/94 Type: Native
Product Supplier: SunSoft, Inc.
Product: Solaris 2.4
Part No: 801-6735-10
GTI - Supported by Product MC - Supported by Product
MFS - Supported by Product AP - Supported by Product
Computer Hardware Supplier: Sun Microsystems Computer Corporation
Computer Hardware Product: SPARCstation 2 model 475
C Compiler: Sun C Compiler Version 2.0.1, Released Oct. 3, 1992
APTL: 0342 Mindcraft, Inc.

151-2SUN017 Issued: 10/13/94 Type: Native
Product Supplier: SunSoft, Inc.
Product: Solaris 2.3 with patch 101294-01
PCD: Solaris 2.3 Standards Conformance Guide, Chapter 5: POSIX.1
Part No: 801-6735-10
GTI - Supported by Product MC - Supported by Product
MFS - Supported by Product AP - Supported by Product
Computer Hardware Supplier: Axil Workstations
Computer Hardware Product: Axil model 311-5.1
C Compiler: gcc version cygwin-2.3.3
APTL: 0342 Mindcraft, Inc.

151-2SUN018 Issued: 10/13/94 Type: Native
Product Supplier: SunSoft, Inc.
Product: Solaris 2.3 with patch 101294-01
PCD: Solaris 2.3 Standards Conformance Guide, Chapter 5: POSIX.1
Part No: 801-6735-10
GTI - Supported by Product MC - Supported by Product
MFS - Supported by Product AP - Supported by Product
Computer Hardware Supplier: Axil Workstations
Computer Hardware Product: Axil model 311-5.2
C Compiler: gcc version cygwin-2.3.3
APTL: 0342 Mindcraft, Inc.

151-2SUN019 Issued: 01/24/95 Type: Native
Product Supplier: SunSoft, Inc.
Product: Solaris 2.4 Hardware: 11/94 Plus SMCC Hardware: 11/94 Updates
Part No: 801-6735-10
GTI - Supported by Product MC - Supported by Product
MFS - Supported by Product AP - Supported by Product
Computer Hardware Supplier: Sun Microsystems Computer Corporation
Computer Hardware Product: SPARCcenter 2000E
C Compiler: Sun C Compiler Version 2.0.1, Released Sep. 3, 1992
APTL: 0342 Mindcraft, Inc.

151-2SUN020 Issued: 01/24/95 Type: Native
Product Supplier: SunSoft, Inc.
Product: Solaris 2.4 Hardware: 11/94 Plus SMCC Hardware: 11/94 Updates
Part No: 801-6735-10
GTI - Supported by Product MC - Supported by Product
MFS - Supported by Product AP - Supported by Product
Computer Hardware Supplier: Sun Microsystems Computer Corporation
Computer Hardware Product: SPARCstation 5 model 85
C Compiler: Sun C Compiler Version 2.0.1, Released Sep. 3, 1992
APTL: 0342 Mindcraft, Inc.

151-2SUN021 Issued: 01/24/95 Type: Native
Product Supplier: SunSoft, Inc.
Product: Solaris 2.4 Hardware: 11/94 Plus SMCC Hardware: 11/94 Updates
Part No: 801-6735-10
GTI - Supported by Product MC - Supported by Product
MFS - Supported by Product AP - Supported by Product
Computer Hardware Supplier: Sun Microsystems Computer Corporation
Computer Hardware Product: SPARCstation Voyager
C Compiler: Sun C Compiler Version 2.0.1, Released Sep. 3, 1992
APTL: 0342 Mindcraft, Inc.

151-2SUN022 Issued: 03/07/95 Type: Native
Product Supplier: SunSoft, Inc.
Product: Solaris 2.4 Hardware: 11/94 Plus SMCC Hardware: 11/94 Updates
Part No: 801-6735-10
GTI - Supported by Product MC - Supported by Product
MFS - Supported by Product AP - Supported by Product
Computer Hardware Supplier: Sun Microsystems Computer Corporation
Computer Hardware Product: SPARCstation 20 model HS11 plus SPARC module HS11
C Compiler: Sun C Compiler Version 2.0.1, Released Sep. 3, 1992
APTL: 0342 Mindcraft, Inc.

151-2SUN023 Issued: 03/02/95 Type: Native
Product Supplier: SunSoft, Inc.
Product: Solaris 2.4 Hardware: 11/94 Plus SMCC Hardware: 11/94 Updates
Part No: 801-6735-10
GTI - Supported by Product MC - Supported by Product
MFS - Supported by Product AP - Supported by Product
Computer Hardware Supplier: Sun Microsystems Computer Corporation
Computer Hardware Product: SPARCstation 20 model 712MP
C Compiler: Sun C Compiler Version 3.0.1, Released Jul. 13, 1994
APTL: 0342 Mindcraft, Inc.

151-2SUN024 Issued: 05/12/95 Type: Native
Product Supplier: SunSoft, Inc.
Product: Solaris 2.4 Hardware: 11/94 Plus SMCC Hardware: 11/94 Updates
Part No: 801-6735-10
GTI - Supported by Product MC - Supported by Product
MFS - Supported by Product AP - Supported by Product
Computer Hardware Supplier: Sun Microsystems Computer Corporation
Computer Hardware Product: SPARCstation 4 model 70
C Compiler: Sun C Compiler Version 3.0.1, Released Jul. 13, 1994
APTL: 0342 Mindcraft, Inc.

151-2SUN025 Issued: 06/02/95 Type: Native
Product Supplier: SunSoft, Inc.
Product: Solaris 2.4 Hardware: 11/94 Plus SMCC Hardware: 11/94 Updates
Part No: 801-6735-10
GTI - Supported by Product MC - Supported by Product
MFS - Supported by Product AP - Supported by Product
Computer Hardware Supplier: Sun Microsystems Computer Corporation
Computer Hardware Product: SPARCstation 5 model 110
C Compiler: Sun C Compiler Version 3.0.1, Released Jul. 13, 1994
APTL: 0342 Mindcraft, Inc.

151-2SUN026 Issued: 05/12/95 Type: Native
Product Supplier: SunSoft, Inc.
Product: Solaris 2.4
NIST POSIX VALIDATED PRODUCTS, Continued

151-2SUN027 Issued: 06/02/95 Type: Native
Product Supplier: SunSoft, Inc.
Product: Solaris 2.4 Hardware: 11/94 Plus SMCC Hardware: 11/94 Updates
GTS - Supported by Product MC - Supported by Product
MFS - Supported by Product AP - Supported by Product
Computer Hardware Supplier: Axil Computer, Inc.
Computer Hardware Product: Axil 320 model 2H912
C Compiler: gcc version cygnus-2.3.3
APTL: 0342 Mindcraft, Inc.

151-2SUN028 Issued: 06/02/95 Type: Native
Product Supplier: SunSoft, Inc.
Product: Solaris 2.4 Hardware: 11/94 Plus SMCC Hardware: 11/94 Updates
GTS - Supported by Product MC - Supported by Product
MFS - Supported by Product AP - Supported by Product
Computer Hardware Supplier: Sun Microsystems Computer Corporation
Computer Hardware Product: SPARCstation 20 model HS14
C Compiler: Sun C Compiler Version 3.0.1, Released Jul. 13, 1994
APTL: 0342 Mindcraft, Inc.

151-2SUN029 Issued: 06/02/95 Type: Native
Product Supplier: SunSoft, Inc.
Product: Solaris 2.4 Hardware: 11/94 Plus SMCC Hardware: 11/94 Updates
GTS - Supported by Product MC - Supported by Product
MFS - Supported by Product AP - Supported by Product
Computer Hardware Supplier: Sun Microsystems Computer Corporation
Computer Hardware Product: SPARCstation 20 model HS22
C Compiler: Sun C Compiler Version 3.0.1, Released Jul. 13, 1994
APTL: 0342 Mindcraft, Inc.

151-2TAN001 Issued: 05/12/95 Type: Native
Product Supplier: Tandem Computers Incorporated
Product: Tandem NonStop Kernel Release D30, product SA73 and Open System Services Run-Time Environment, product SA16 with IPMs T6533AAE, T8373AAAB, T8305AAAB, T8371AAAB, and T8372AAAB and Open Internationalization with Single- and Multi-Byte Locales, product SA08 and Tandem NonStop TCP/IP with the Telserv TELNET Server product SD20
PCD: Open System Services Conformance document for POSIX.1, Third Edition
GTS - Not provided by Product MC - Not provided by Product
MFS - Supported by Product AP - Supported by Product
Computer Hardware Supplier: Tandem Computers Incorporated
Computer Hardware Product: K10000
C Compiler: NonStop Kernel Open System Services Development Environment Release D30, product SA02
APTL: 0342 Mindcraft, Inc.

151-2TEN002 Issued: 05/12/95 Type: Native
Product Supplier: Tandem Computers Incorporated
Product: Tandem NonStop Kernel Release D30, product SA73 and Open System Services Run-Time Environment, product SA16 with IPMs T6533AAE, T8373AAAB, T8305AAAB, T8371AAAB, and T8372AAAB and Open Internationalization with Single- and Multi-Byte Locales, product SA08 and Tandem NonStop TCP/IP with the Telserv TELNET Server product SD20
PCD: Open System Services Conformance document for POSIX.1, Third Edition
GTS - Not provided by Product MC - Not provided by Product
MFS - Supported by Product AP - Supported by Product
Computer Hardware Supplier: Tandem Computers Incorporated
Computer Hardware Product: K10000
C Compiler: NonStop Kernel Open System Services Development Environment Release D30, product SA02
APTL: 0342 Mindcraft, Inc.

151-2TEN001 Issued: 10/25/94 Type: Hosted
Product Supplier: Tenon Intersystems
Product: MachTen Version 4.0.0
PCD: MachTen POSIX1.1 Conformance Document Release 1.0, October, 1994
GTS - Supported by Product MC - Supported by Product
MFS - Supported by Product AP - Supported by Product
Computer Hardware Supplier: Apple Computer, Inc.
Computer Hardware Product: Macintosh Quadra 630
Host Operating System Supplier: Apple Computer, Inc.
Host Operating System: MacOS 7.1.2P
C Compiler: gcc 2.5.8
APTL: 0342 Mindcraft, Inc.

151-2TEN002 Issued: 10/25/94 Type: Hosted
Product Supplier: Tenon Intersystems
Product: MachTen Version 4.0.0
PCD: MachTen POSIX1.1 Conformance Document Release 1.0, October, 1994
GTS - Supported by Product MC - Supported by Product
MFS - Supported by Product AP - Supported by Product
Computer Hardware Supplier: Apple Computer, Inc.
Computer Hardware Product: Macintosh PowerBook 520
Host Operating System Supplier: Apple Computer, Inc.
Host Operating System: MacOS 7.1.1
C Compiler: gcc 2.5.8
APTL: 0342 Mindcraft, Inc.
NIST POSIX VALIDATED PRODUCTS, Continued

151-2UNI003  Issued: 11/15/94  Type: Native
Product Supplier: Unisys Corporation
Product: Unix System V Release 4 Revision 1.3
PCD: UNIX System V Release 4.0 POSIX Conformance Programmer’s Guide Part Number: 3914 9430-400
GTI - Supported by Product  MC - Supported by Product
MFS - Supported by Product  AP - Supported by Product
Computer Hardware Supplier: Unisys Corporation
Computer Hardware Product: U6000/500 Model 50
C Compiler: Unix System V Release 4 Standard C Development Environment, Rev. 1.3
APTL: 0342  Mindcraft, Inc.

151-2UNI004  Issued: 11/17/94  Type: Native
Product Supplier: Unisys Corporation
Product: Unix System V Release 4 Revision 1.3
PCD: UNIX System V Release 4.0 POSIX Conformance Programmer’s Guide Part Number: 3914 9430-400
GTI - Supported by Product  MC - Supported by Product
MFS - Supported by Product  AP - Supported by Product
Computer Hardware Supplier: Unisys Corporation
Computer Hardware Product: U6000/600 Model 60
C Compiler: Unix System V Release 4 Standard C Development Environment, Rev. 1.3
APTL: 0342  Mindcraft, Inc.

For further information on the NIST/CSL POSIX validation program contact Martha M. Gray, Computer Systems Laboratory, B266 Technology Bldg., NIST, Gaithersburg, MD 20899. Telephone: 301-975-3276, fax: 301-590-0932, e-mail: gray@sst.ncsl.nist.gov.

This register is also available on an electronic mail (email) file server system. To use the service, you must be able to send and receive email via the Internet. For most email systems, send an email message (mail posix@nist.gov) with the first line of the message containing a command to send 151-2reg and a carriage return. The next line should simply end your email message (on some systems a period and a carriage return). This register will be returned via email to your email address. There is also a register for FIPS 151-1 accredited laboratories and validated products. For this register use the command send 151-1reg.
6. COMPUTER SECURITY TESTING

6.1 Cryptographic Standards

The lists in Sections 6.6, 6.7 and 6.8 provide technical information about products that have been validated as conforming to the following computer security FIPS:

a. Data Encryption Standard (DES), FIPS PUB 46-2,

b. Message Authentication Code (MAC), FIPS PUB 113, and


6.2 Data Encryption Validation Tests

FIPS PUB 46-2 specifies a cryptographic algorithm that converts plaintext to ciphertext using a 56-bit key. Testing procedures for the validation of devices as conforming to FIPS PUB 46-2 are described in the NBS Special Publication 500-20, Validating the Correctness of Hardware Implementations of the NBS Data Encryption Standard. The validation of a device is performed by running the Monte Carlo test described in the publication. The Monte-Carlo test consists of eight million encryptions and four million decryptions, with two encryptions and one decryption making up a single test. The test is designed to use the Electronic Codebook Mode (ECB) of DES. Although the actual test described in NBS Special Publication 500-20 is the same test used to validate devices today, the procedures for administering the test have changed. Currently, the test is performed by the vendor using initial values supplied by NIST. The vendor uses the supplied information to run the Monte-Carlo test and sends the results to NIST.

6.3 Message Authentication Code (MAC) Validation System

FIPS PUB 113, Computer Data Authentication, specifies a Data Encryption Algorithm which may be used to detect unauthorized intentional and accidental modifications to data. This process is known as data authentication. The algorithm is based on DES and is used to authenticate an entire binary message. FIPS PUB 113 is compatible with ANSI X9.9 which provides methods for authenticating an entire binary message as well as all or parts of a message which are in a coded character format. Procedures for the validation of products which implement FIPS PUB 113 and ANSI X9.9 are described in NBS Special Publication 500-156, Message Authentication Code (MAC) Validation System: Requirements and Procedures.

6.4 Key Management Validation System (KMVS)

FIPS PUB 171 adopts ANSI X9.17 for Federal Government use. ANSI X9.17, Financial Institution Key Management (Wholesale), provides procedures and protocols for the secure generation, distribution, storage, entry, use and destruction of symmetric cryptographic keying material (e.g., DES). It provides key management solutions for a variety of operational environments, and as such, ANSI X9.17 contains a number of options. FIPS PUB 171 specifies a particular set of options whenever keying material is distributed using the protocols of ANSI X9.17. Procedures for the validation of products which conform to a subset of the options selected in FIPS PUB 171 are described in the Key Management Validation System: Point-to-Point Validation System document which is available from the Manager of the Security Group (see Section 6.5).
6.5 General

6.5.1 Request for Validation

To validate a product, a vendor should send a formal request for validation which includes a clear indication of the product to be tested. The request must also include the name, address, and telephone number of the person within the vendor's organization who will be responsible for the validation testing. The request should be sent to:

Manager, Security Technology Group
Computer Security Division
National Computer Systems Laboratory
Building 225, Room A216
National Institute of Standards and Technology
Gaithersburg, MD 20899
Telephone (301) 975-2920

6.5.2 Information about Validated Products

It should be noted that the purpose of the following lists (see Sections 6.6, 6.7 and 6.8) is to provide technical information about products that have been validated as conforming to the FIPS Standards listed in Section 6.1. NIST has made every attempt to provide complete and accurate information about the products described in the following lists. However, due to the possibility of changes made within individual companies, NIST cannot guarantee that this document reflects the current status of each product.

6.5.3 Validation Documentation

Copies of the above FIPS and Special Publications are for sale by the National Technical Information Service, U.S. Department of Commerce, Springfield, VA 22161. The KMVS validation requirements document discussed in Section 6.4 can be obtained by contacting the Manager of the Security Technology Group at the above address.
### 6.6 DES Validated Devices

**NOTE:** The purpose of this document is to provide technical information about devices that have been validated as conforming to Federal Information Processing Standard Publication 46-2, Data Encryption Standard. The National Institute of Standards and Technology (NIST) has made every attempt to provide complete and accurate information about the devices described in this document. However, due to the possibility of changes made within individual companies, NIST cannot guarantee that this document reflects the current status of each product.

<table>
<thead>
<tr>
<th>MANUFACTURER ADDRESS</th>
<th>PRODUCT</th>
<th>VALIDATION DATE</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advanced Engineering Concepts, Inc. 1198 Pacific Coast Highway #D-505 Seal Beach, CA 90740 -Mark Olson (310) 379-1189</td>
<td>MODEM LOCK version 1.0 (firmware) and KEYXLI8 version 1.0 (software) (Encryption Only)</td>
<td>5/26/94</td>
<td>MODEM LOCK/KEYXLI8 is a firmware/software combination that is intended to be connected between a computer and an external modem; encrypts the modem data stream; works with most computers and most common existing modems; weighs 8oz, small enough for a shirt pocket, runs up to 40 hours on a 9-volt battery, also has an AC adapter.</td>
</tr>
<tr>
<td>Advanced Micro Devices, Inc. 4115 Friederich Lane Mail Stop 135 Austin, TX 78744 -Patrick Soheili (408) 749-2161</td>
<td>AmZ068 (also known as Am9518)</td>
<td>1/28/81</td>
<td>One 40-pin DIP package; n-channel Si-gate technology; ECB, CBC and 8-bit CFB modes; separate ports for key input, clear data and enciphered data; concurrent input, output and ciphering activities; external DMA control; interfaces with AmZ000 CPU bus directly, and with the 2900, 8080, 8085 and 8048 families with minimum throughput greater than 1 Mbytes per second; greater than 1 Mbytes per second.</td>
</tr>
<tr>
<td></td>
<td>AM 9568</td>
<td>2/28/84</td>
<td>N-channel silicon gate LSI product containing the circuitry necessary to encrypt and decrypt data; can be used in dedicated controllers, communication concentrators, terminals and peripheral task processors in general processor systems; can be used in CFB, ECB, or CBC operating modes; separate ports for key input, clear data, and enciphered data enhanced security; interface directly to the IAPX86, 88 bus; interfaces with 2900 and 8051 families with minimal external logic.</td>
</tr>
<tr>
<td>American Telephone and Telegraph Company (AT&amp;T) 6612 E. 75th Street P.O. Box 1008 Indianapolis, IN 46206 -Ken Zempol (908) 658-6870</td>
<td>AT&amp;T Smart Card Version 2.11/DES</td>
<td>5/3/91</td>
<td>Card is part of a smart card based Computer Security System (CSS). The card is carried by an authorized user and permits the user to gain access to host computer systems that are protected by the CSS.</td>
</tr>
<tr>
<td></td>
<td>AT&amp;T Smart Card Version 3.0/DES (5E1)</td>
<td>7/19/91</td>
<td>This version of the AT&amp;T Smart Card is designed to closely follow developments in the international standards arena in areas of card communication protocols, commands and file structures. It is a general purpose smart card that supports multiple applications and uses the DES as a basic part of its operating system.</td>
</tr>
<tr>
<td>American Telephone and Telegraph AT&amp;T Guilford Center I-85 &amp; Mt. Hope Church Road McLeanvsille, NC 27420 -B.F. Bailey (910) 279-3779 -M. Zugay (910) 279-3779</td>
<td>AT&amp;T Mark E DES Key Generator, PN ON493049-1X</td>
<td>6/3/92</td>
<td>Not Available</td>
</tr>
<tr>
<td></td>
<td>AT&amp;T Mark ET DES Key Generator Part No. AN10014-1</td>
<td>11/2/92</td>
<td>Not Available</td>
</tr>
<tr>
<td>MANUFACTURER NAME</td>
<td>ADDRESS</td>
<td>PRODUCT</td>
<td>VALIDATION DATE</td>
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</tr>
<tr>
<td>The Analytic Sciences Corporation</td>
<td>700 Boulevard South, Suite 201</td>
<td>DESafe version 1.0 (software)</td>
<td>8/26/94</td>
</tr>
<tr>
<td>AT&amp;T</td>
<td>Whippany Road</td>
<td>AT&amp;T T7000A Digital Encryption Processor</td>
<td>4/22/86</td>
</tr>
<tr>
<td>AT&amp;T Bell Laboratories</td>
<td>25 Lindsay Drive Room 2B-309</td>
<td>DEP229ER (WE229ER)</td>
<td>9/6/83</td>
</tr>
<tr>
<td>Arkansas Systems Inc.</td>
<td>8901 Kanis Road</td>
<td>DES-MATE</td>
<td>7/6/89</td>
</tr>
<tr>
<td>Burroughs Corporation</td>
<td>Federal and Special Systems Group P.O. Box 517, Paoli, PA 19301</td>
<td>PN 2664-9723</td>
<td>3/16/78</td>
</tr>
<tr>
<td>Chase Manhattan Bank, N.A.</td>
<td>199 Water Street 12th Floor New York, New York 10081</td>
<td>Chase Encryption Device 1</td>
<td>7/24/84</td>
</tr>
<tr>
<td>Collins Telecommunications</td>
<td>Collins Defense Communications 350 Collins Road, NE Mail Stop 120-105 Cedar Rapids, Iowa 52498</td>
<td>765-5914-001</td>
<td>10/15/77</td>
</tr>
<tr>
<td>Computer Electronik Infosys of America SuperCrypt</td>
<td>512-A Herndon Parkway Herndon, VA 22070 -A. Mark Brown (703) 435-3800</td>
<td>CryptCard</td>
<td>1/12/93</td>
</tr>
<tr>
<td>Cottonwood Software</td>
<td>3448 Orange Street Los Alamos, NM 87544</td>
<td>Cottonwood Software DES Class Library v. 1.05 (software)</td>
<td>8/26/94</td>
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<tr>
<td>Cylink Corporation 110 South Wolfe Road Sunnyvale, California 94086 -Les Nightingill (408) 735-5800</td>
<td>CY1045</td>
<td>1/28/87</td>
<td>Not Available - Note: The device CY1045 was originally validated under the name CYDES45M.</td>
</tr>
<tr>
<td>Cylink Faxdes 12035-001,DES52M 12422-001,DES2M1CFB</td>
<td>7/1/87</td>
<td>Not Available</td>
<td></td>
</tr>
<tr>
<td>6/3/92</td>
<td>Not Available</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8/27/92</td>
<td>Not Available</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Data Critical Corporation 120 N. Robinson, Suite 1520 Oklahoma City, OK 73102 -David Albert (405) 236-4441</td>
<td>DCCDES.LIB for DOS/WINDOWS (software)</td>
<td>1/18/95</td>
<td>The DCCDES.LIB modules for DOS/WINDOWS and OS/2 are both used in the Secure Page+ product line. Secure Page+ provides secure, reliable data transmission over existing paging networks; features Image-APB for Secure Broadcast of Images (Mug Shots, Missing Children, etc); provides the capability to send virtually any type of data to a hand-held, car-mounted or desktop computers over existing paging networks.</td>
</tr>
<tr>
<td>Datakey, Inc. 407 West Travelers Trail Burnsville, MN 55337-9990 -Michael Carenzo (612) 890-6850</td>
<td>H8-310 ASACS Smart Card</td>
<td>7/2/92</td>
<td>ASACS is an advanced smart card access control system designed jointly by Datakey, Inc. and the Security Technology Group at NIST. The ASACS hardware consists of a credit-card sized smart card with an embedded Hitachi H8/310 microprocessor and a reader/writer interface which provides an RS-232 serial connection to a host computer. The smart card functions are implemented in firmware which is stored in the memory of the card's microprocessor.</td>
</tr>
<tr>
<td>Docutel/Olivetti Corporation 106 Decker Court Suite 300 Irving, Texas 75062 Division of International Marketing (214) 550-5400</td>
<td>Docutel Nordisk Sparadata Cash Dispensing Terminal</td>
<td>6/20/82</td>
<td>Firmware implementation of DES in ROM for 106 PIN/communications security.</td>
</tr>
<tr>
<td>Ericsson G.E., Mobile Communications 1 Mountain View Road Lynchburg, VA 24502 -Dan Schwed (804) 948-6055</td>
<td>ADI DES revision 1.0</td>
<td>4/22/94</td>
<td>Software implementation of DES in OFB mode; Provides digital voice encryption for communications between mobile radios, portable radios, and dispatch control consoles in an EDACS Land Mobile Radio Communications System.</td>
</tr>
<tr>
<td>The Exchange 15395 SE 30th Place Bellevue, WA 98007 -Patricia Lenti-Crane (206) 644-7000</td>
<td>EXCRYPT DEB-64-KM (originally EXCLUDE DEB-64-KM)</td>
<td>1/26/89</td>
<td>Encrypts and decrypts data; generates random keys; supports up to six security processor boards that can be run in parallel to enhance throughput; has storage capacity for up to 4000 DES keys; developed for secure financial transactions.</td>
</tr>
<tr>
<td>Fairchild Semiconductor 2000 Century Plaza Columbia, MD 21044 Sales Department (301) 730-1510</td>
<td>9414 Chip Set</td>
<td>12/20/78</td>
<td>Bit-slice chip set mounted on a 9414 board with edge or ELCO connector; 4 chip set with 40 pins each; 2 bits of each byte are distributed to each chip; single 5V power supply; separate data inputs and outputs; ECB, CFB, and CBC modes of operation.</td>
</tr>
<tr>
<td>Front Line Software P.O. Box 217 Lowell, MA 01853 -William Graham (617) 452-3352</td>
<td>726-8064 PROM Device</td>
<td>12/1/86</td>
<td>4 K EPROM to be used with Intel IPAX family of microprocessors including all models of the IBM PC family; all modes of DES supported.</td>
</tr>
<tr>
<td>MANUFACTURER ADDRESS</td>
<td>PRODUCT</td>
<td>VALIDATION DATE</td>
<td>DESCRIPTION</td>
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</tr>
<tr>
<td>GEC-Marconi Limited Ltd. Brown's Lane, The Airport Portsmouth, Hampshire PO3 5PH England -Roger Madden Cycomm Corporation (703) 352-4741</td>
<td>DM800 (Encryption Only)</td>
<td>3/1/93</td>
<td>The DM800 is a module that can be added to an ordinary analogue radio in order to provide communication security by digital encryption.</td>
</tr>
<tr>
<td>GEMPLUS CARD International 656 Quince Orchard Road Suite 610 Gaithersburg, MD 20878 -Gilles Lisimaque (301) 990-8800</td>
<td>MCOS16K EEPROM/DES</td>
<td>3/18/91</td>
<td>A multi-application smart card which complies with the ISO standard 7816 (parts 1, 2, and 3) for Integrated Circuit cards with contacts.</td>
</tr>
<tr>
<td>General Electric Company Mountain View Road Lynchburg, VA 24502 -Jim Elder (804) 948-6187</td>
<td>Part Number 19B801375</td>
<td>6/28/85</td>
<td>The GE DES IC is a microprocessor controlled, low speed asynchronous CMOS IC using DES. Intended to provide secure voice in commercial grade mobile radio applications.</td>
</tr>
<tr>
<td>Glenco Engineering, Inc. 270 Lexington Drive Buffalo Grove, IL 60089-6930 -D. Wade Clark (708) 808-0300</td>
<td>Glen-DES PN GL306051</td>
<td>5/8/92</td>
<td>The Glen-DES is a compact 20 pin design, using low power CMOS technology, operating at 3 s using a 16 MHz clock. The DES chip features nonvolatile internal memory, an external key and a combined key. It is available with a simple CPU interface and it supports both PCMCIA and DOS printer port implementations.</td>
</tr>
<tr>
<td>IBM Corporation Federal Systems Division WK4/988 P.O. Box 100 Kingston, NY 12401 -Robert Elander (914) 385-6692</td>
<td>4402182</td>
<td>11/1/77</td>
<td>This card used in terminal equipment; the chip uses technology with PLA control to implement CBC.</td>
</tr>
<tr>
<td></td>
<td>P/N 8270094 using DES Chip</td>
<td>8/25/78</td>
<td>This card is used in 3845 and 3846 equipment for 8-bit CFB.</td>
</tr>
<tr>
<td></td>
<td>P/N 5898057 (originally 8269206) Two TTL cards - 8632242 and 8679176</td>
<td>9/21/79</td>
<td>Will operate at least at 1.5 Mbytes 360 channel rate; card set is used in 3848 cryptographic unit; uses &quot;Emerald-5&quot; technology.</td>
</tr>
<tr>
<td>IBM Corporation 1001 W.T. Harris Blvd. West Charlotte, NC 28257 -William Rohland (704) 594-8250</td>
<td>4754 Security Interface Unit and the Personal Security Card</td>
<td>10/10/90</td>
<td>Devices are used in a transaction security system to protect the privacy and integrity of data using a common cryptographic interface. The security interface unit communicates with the Personal Security Card and the cryptographic adaptor, if present. The Personal Security Card is an integrated-circuit chip card that contains a single chip security processor.</td>
</tr>
<tr>
<td>IBM Corporation P.O. Box 950 Poughkeepsie, NY 12602 -Robert Granell (914) 435-5751</td>
<td>IBM ES/9000 Integrated Crypto-graphic Feature</td>
<td>2/26/93</td>
<td>The Integrated Cryptographic Feature is available for inclusion on the IBM ES/9000 processors in support of IBM's cryptographic architecture.</td>
</tr>
</tbody>
</table>
## DES Validated Devices, Continued

<table>
<thead>
<tr>
<th>MANUFACTURER ADDRESS</th>
<th>PRODUCT</th>
<th>VALIDATION DATE</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>IBM Corporation</td>
<td>IBM BDS Portable-C DES, version 1.0 (software)</td>
<td>7/1/94</td>
<td>Portable C-language implementation of DES, used in products developed by IBM Branch Delivery Systems.</td>
</tr>
<tr>
<td>Branch Delivery Systems</td>
<td>DES module/Intel, version 3.0 (software)</td>
<td>8/9/94</td>
<td>An extremely high speed module implemented in 386 assembly language. Used in SecretAgent for DOS, Windows and UNIX System V/386. Available as an object module library or DLL, or as one component of the AT&amp;T Surity Cryptographic Development Kits on those platforms.</td>
</tr>
<tr>
<td>Dept. 04V, Bldg. 204</td>
<td>DES module/68K, version 3.0 (software)</td>
<td>8/9/94</td>
<td>An extremely high speed module implemented in 68020 assembly language. Used in SecretAgent for Macintosh. Available as an object module library for MPW or Think C, or as one component of the AT&amp;T Surity Cryptographic Development Kits for Macintosh.</td>
</tr>
<tr>
<td>1001 W.T. Harris Blvd. Charlotte, NC 28257</td>
<td>DES module/C, version 2.0 (software)</td>
<td>8/16/94</td>
<td>A portable DES module implemented in C/C++. Used in SecretAgent for UNIX (except on Intel platforms). Available as an object module library, or as one component of the AT&amp;T Surity Cryptographic Development Kits for Sun, DEC, HP and other UNIX platforms.</td>
</tr>
<tr>
<td>-Todd Arnold (704) 594-8253</td>
<td>8294</td>
<td>1/3/78</td>
<td>Algorithm is microcode which is burned into a 1 Kbyte ROM on a 5 volt, 40-pin chip driven by a 8042 microprocessor.</td>
</tr>
<tr>
<td>Information Security Corporation</td>
<td>8294A</td>
<td>6/20/82</td>
<td>Same as the 8294 except for a maximum data transfer rate of 400 bytes per second.</td>
</tr>
<tr>
<td>1141 Lake Cook Rd., Suite D Deerfield, IL 60015</td>
<td>Krypton Firmware</td>
<td>2/12/86</td>
<td>ROM chips for the standard IBM PC family include eight 3722 chips, four 2764 chips and one 27256 chip; 1024-bit CBC chaining; encryption speed dependent on clock of PC; ROM can plug directly into ROM slot.</td>
</tr>
<tr>
<td>-Michael Markowitz (708) 405-0500</td>
<td>SAFE 300</td>
<td>8/12/93</td>
<td>The SAFE 300 is a stand-alone fax encryptor that provides both public network security and office privacy with automatic fax encryption, confidential fax mailbox, and misdial protection.</td>
</tr>
<tr>
<td>Intel</td>
<td>LEX-POS (Model 600)</td>
<td>11/28/84</td>
<td>A Personal Identification Number (PIN) entry device; used in conjunction with financial transaction devices, 16 key keyboard, 20 character display, RS-232 compatible; Lexicon sold LEX-POS to ICOT Corporation.</td>
</tr>
<tr>
<td>1900 Prairie City Road Folsom, CA 95630</td>
<td>LEX-POS (Model 600)</td>
<td>11/28/84</td>
<td>A Personal Identification Number (PIN) entry device; used in conjunction with financial transaction devices, 16 key keyboard, 20 character display, RS-232 compatible; Lexicon sold LEX-POS to ICOT Corporation.</td>
</tr>
<tr>
<td>-Joe Dragony (916) 351-5250</td>
<td>LEX-POS (Model 600)</td>
<td>11/28/84</td>
<td>A Personal Identification Number (PIN) entry device; used in conjunction with financial transaction devices, 16 key keyboard, 20 character display, RS-232 compatible; Lexicon sold LEX-POS to ICOT Corporation.</td>
</tr>
<tr>
<td>John E. Holt &amp; Associates</td>
<td>3715 Atherton Road Rocklin, CA 95765</td>
<td>37256</td>
<td>A Personal Identification Number (PIN) entry device; used in conjunction with financial transaction devices, 16 key keyboard, 20 character display, RS-232 compatible; Lexicon sold LEX-POS to ICOT Corporation.</td>
</tr>
<tr>
<td>2714 Key Boulevard Arlington, VA 22201</td>
<td>3715 Atherton Road Rocklin, CA 95765</td>
<td>37256</td>
<td>A Personal Identification Number (PIN) entry device; used in conjunction with financial transaction devices, 16 key keyboard, 20 character display, RS-232 compatible; Lexicon sold LEX-POS to ICOT Corporation.</td>
</tr>
<tr>
<td>-John Holt (703) 524-2923</td>
<td>3715 Atherton Road Rocklin, CA 95765</td>
<td>37256</td>
<td>A Personal Identification Number (PIN) entry device; used in conjunction with financial transaction devices, 16 key keyboard, 20 character display, RS-232 compatible; Lexicon sold LEX-POS to ICOT Corporation.</td>
</tr>
<tr>
<td>Jones Futurex</td>
<td>SAFE 300</td>
<td>8/12/93</td>
<td>The SAFE 300 is a stand-alone fax encryptor that provides both public network security and office privacy with automatic fax encryption, confidential fax mailbox, and misdial protection.</td>
</tr>
<tr>
<td>3715 Atherton Road Rocklin, CA 95765</td>
<td>SAFE 300</td>
<td>8/12/93</td>
<td>The SAFE 300 is a stand-alone fax encryptor that provides both public network security and office privacy with automatic fax encryption, confidential fax mailbox, and misdial protection.</td>
</tr>
<tr>
<td>-Steve DeRosa (916) 632-3456</td>
<td>SAFE 300</td>
<td>8/12/93</td>
<td>The SAFE 300 is a stand-alone fax encryptor that provides both public network security and office privacy with automatic fax encryption, confidential fax mailbox, and misdial protection.</td>
</tr>
<tr>
<td>Lexicon</td>
<td>DESDLL.DLL 2.0 E/D Engine (software)</td>
<td>7/25/94</td>
<td>DESDLL.DLL is the software cryptoengine for WinDES 2.0; WinDES provides easy to use encryption/decryption as well as other file protection features for pc-compatible systems running under MS Windows; supports drag &amp; drop capabilities, file compression, Defense-related secure file deletion, etc.</td>
</tr>
<tr>
<td>MANUFACTURER/ADDRESS</td>
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<td>DESCRIPTION</td>
</tr>
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</tr>
<tr>
<td>LSI Logic/Dataco AS</td>
<td>Dataco L5A4043 2030025402</td>
<td>1/12/90</td>
<td>Custom DES IC was manufactured by LSI Logic for Dataco. The DES chip is designed for optional use in SeaNet local area network products.</td>
</tr>
<tr>
<td>Matsushita Electronic Components Co.</td>
<td>EBC 1642 IC Card High Frequency Products Division One Panasonic Way Secaucus, NJ 07094 -Dursun Sakarya (201) 348-7767</td>
<td>3/13/91</td>
<td>Card is designed to be a high security external storage media housing an 8 bit CPU and 64 Kbit EEPROM.</td>
</tr>
<tr>
<td>Micro Card Technologies, Inc.</td>
<td>Micro Card TB100 Integrated Circuit Card</td>
<td>9/19/90</td>
<td>A multi-application integrated circuit card which can simultaneously support several application data files. Ciphering and deciphering functions may be used to encrypt or decrypt external messages using DES.</td>
</tr>
<tr>
<td>Morse Security Group, Inc.</td>
<td>TRAP 5200 System</td>
<td>4/17/90</td>
<td>Touch response alarm processor system, including a receiver processor located in a data gathering center and a series of transponders located at remote locations, contains DES to produce encrypted data that flows along a communication path.</td>
</tr>
<tr>
<td>Motorola</td>
<td>MC6859 (originally MGD68NE)</td>
<td>2/11/80</td>
<td>Si-gate depletion mode, nMOS 24-pin DIP using single 5 volt power supply; implements ECB and CFB.</td>
</tr>
<tr>
<td>Motorola</td>
<td>T5W-2</td>
<td>11/12/81</td>
<td>Special purpose for internal use only.</td>
</tr>
<tr>
<td>Newbridge Microsystems</td>
<td>CA95C</td>
<td>9/8/93</td>
<td>The CA95C Data Ciphering Processor implements the DES using the ECB, CFB, or CBC modes of operation. The CA95C provides a high throughput rate up to 11 Mbytes/second. Separate ports for key input, clear data and enciphered data are available.</td>
</tr>
<tr>
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<td>DESCRIPTION</td>
</tr>
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<tr>
<td>Newnet S.A. 430 Buenos Aires 1087</td>
<td>Data Security Device (DSD 9612)</td>
<td>7/2/91</td>
<td>This device is based on an eight bit INTEL microprocessor with 8 Kbytes of EPROM. Transfer data at speeds of 1200 to 9600 bps and communicates with other devices via EIA RS-232-C ports.</td>
</tr>
<tr>
<td>Argentina -Daniel Ramos 54 1 334 9732</td>
<td>VEM Module</td>
<td>1/7/80</td>
<td>The plug-in module is used with the Nixdorf 8864 CPU for encrypting data transmission blocks and file protection; may be used in terminal applications in the financial community; uses TTL.</td>
</tr>
<tr>
<td>Nixdorf Computer Corporation</td>
<td>BNR 64-bit Cipher Feedback Mode Module, version 1.0 (firmware)</td>
<td>7/19/94</td>
<td>The validated firmware is used in the PowerTouch 350 (Vista 350), an advanced screen telephone that connects to standard analog phone lines. PowerTouch 350 has an 8 line by 21 character display and supports the Bellore ADSI protocol; uses the DES in 64-bit CFB mode to provide data encryption targeted for banking applications.</td>
</tr>
<tr>
<td>168 Middlesex Turnpike Burlington, MA 01803 -Kevin Madden (617) 890-3600</td>
<td>Entrust DES 32-2/64K Software Module, Version 1.1</td>
<td>9/13/94</td>
<td>DES 32-2/64K is used in the Entrust family of cryptographic products. Entrust provides encryption and digital signature services enterprise-wide, with fully automated key management that scales from small workgroups to 100,000+ users. Entrust is supported across platforms such as Windows, UNIX, Macintosh and mainframes.</td>
</tr>
<tr>
<td>Northern Telecom 3705 35th St. NE Calgary, Alberta T1Y 6C2 -Paul Provencal Bell Northern Research (613) 763-8014 -Roland Lockhart Bell Northern Research, Ltd. (613) 763-5367</td>
<td>Datacryptor</td>
<td>1/7/80</td>
<td>Stand alone equipment with public key management remote distribution of master keys.</td>
</tr>
<tr>
<td>Racal-Milgo P.O. Box 407044 Ft. Lauderdale, FL 33340-7044 -Richard Abbruscato (305) 476-6800</td>
<td>Research In Motion DES Library, version 1.0 (software)</td>
<td>12/16/94</td>
<td>RIM DES Library is a software module DES implementation; it's intended to be used in a variety of wireless communication products such as portable terminals, point of sale equipment, and gateways to ensure privacy of user data.</td>
</tr>
<tr>
<td>Rothenbuhler Engineering P.O. Box 708 2191 Rhodes Road Sedro Woolley, WA 98284-0708 -Andrew Benson (206) 856-0836</td>
<td>CLS Series 5200 Encryption Module</td>
<td>3/19/91</td>
<td>The CLS Series 5200 Encryption Module is used in a system which communicates 8 channels of electronic security information between a client and a central monitoring facility.</td>
</tr>
<tr>
<td>CA20C03A</td>
<td>4/10/91</td>
<td></td>
<td>A high performance WD20C03A compatible DES data encryption processor with data transfer rates up to 4 Mbytes per second. Supports electronic code book and cipher block chaining modes of operation. Battery backup capability of internal key register. PLCC and PDIP packaging available.</td>
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### DES Validated Devices, Continued

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<tr>
<th>MANUFACTURER ADDRESS</th>
<th>PRODUCT</th>
<th>VALIDATION DATE</th>
<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>Secur-Data Systems, Inc. Omega Center 7340 Executive Way, Suite R Frederick, MD 21701 -Ronald Baum (301) 698-9955</td>
<td>DESPLEX</td>
<td>2/2/89</td>
<td>Used in a CFB configuration as part of a firmware operating system for processing and transmission of alarm sensor data as well as receiving and annunciating data in an alarm monitoring facility.</td>
</tr>
<tr>
<td>Secure Computing Corporation 2675 Long Lake Road Roseville, MN 55113 -Ron Bohn (612) 628-2725</td>
<td>sctc_des.c, version 1.7</td>
<td>4/22/94</td>
<td>Software implementation of DES that is used in LOCKout products; LOCK4out uses DES-based challenge-response to provide protection for networks, support remote user dial-in authentication, and provide Internet Firewall protection for host computers.</td>
</tr>
<tr>
<td>Texas Instruments, Inc. P.O. Box 1443, M/S 736 Houston, TX 77001 -Mike Polen (713) 274-3635</td>
<td>TMS 99541</td>
<td>2/28/82</td>
<td>Preprogrammed TMS7020 8-bit single chip microprocessor; 40-pin DIP plastic package I/O pins are TTL compatible; master and active key registers.</td>
</tr>
<tr>
<td>TimeStep Corporation 600 March Road P.O. Box 13600 Kanata, Ontario K2K 2E6 -Tony Rosati (613) 599-3600</td>
<td>TS95C40</td>
<td>12/16/94</td>
<td>32Mmps DES engine - operates in ECB, CBC, 1-bit and 8-bit CFB modes; 32KB of EEPROM, random bit generator, time-of-day logic; implemented in the PERMIT 1010, a 28-pin, fully encapsulated hybrid device that plugs into boot ROM socket of PC LAN Adapters; enabling technology for network layer encryption, access control, and file integrity applications.</td>
</tr>
<tr>
<td>Transcrypt International, Inc. 4800 NW First Street Lincoln, NE 68521 -Jim Gilley (402) 474-4800</td>
<td>Transcrypt DES Subroutine &amp; Key Schedule v 1.00 (software)</td>
<td>11/14/94</td>
<td>Transcrypt DES Subroutine is used in Transcrypt's DME 9600 Dual Mode Encryptor, which connects between the handset and base of a landline telephone, and provides analog scrambling or digital encryption of the conversation. Backwards compatible with Transcrypt's analog cellular and landline voice privacy products.</td>
</tr>
<tr>
<td>UNIVAC P.O. Box 3942 St. Paul, MN 55165 -Jim Nelson (612) 631-6728</td>
<td>End-End/Mass Storage Encryptor</td>
<td>1/29/80</td>
<td>Prototype device for testing purposes only.</td>
</tr>
<tr>
<td>Virtual Open Network Environment Corp. 12300 Twinbrook Parkway Rockville, MD 20852 -George Thornton (301) 881-2297</td>
<td>V-ONE DES Module (software)</td>
<td>7/25/94</td>
<td>Smart card system for PC security, file encryption and decryption, user authentication, secure remote system logon, personal identification, and multilevel system access.</td>
</tr>
<tr>
<td>VLSI Technology, Inc. 8375 S. River Parkway Tempe, AZ 85284 -Ray Slusarczyk (602) 752-8574</td>
<td>VM007 - Data Encryption Processor</td>
<td>1/6/92</td>
<td>The VM007 Data Encryption Processor is a programmable integrated circuit that provides a complete cryptographic system on a single chip; contains a hardware implementation of the DES, RISC-based sequencer, data storage registers, and ROM-based microprogram. Designed to provide very high data and key processing rates (up to 190 Mbits/sec), flexible I/O interfacing, advanced security features, and supports all DES modes of operation; manufactured using 1.0 micron CMOS technology; available in a 84-pin leaded ceramic chip carrier.</td>
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### DES Validated Devices, Continued

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<th>MANUFACTURER ADDRESS</th>
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<th>VALIDATION DATE</th>
<th>DESCRIPTION</th>
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</thead>
<tbody>
<tr>
<td>VM009 Data Encryption Processor</td>
<td>1/11/93</td>
<td>The VM009 Data Encryption Processor is a programmable integrated circuit that provides a complete cryptographic system on a single chip. Contains a hardware implementation of the DES, and data storage registers. Designed to provide very high data and key processing rates (up to 100 Mbits/sec), flexible I/O interfacing, advanced security features, and supports all DES modes of operation; manufactured using 1.0 micron CMOS technology; available in a 40 lead plastic DIP and 44 lead plastic leaded chip carrier.</td>
<td></td>
</tr>
<tr>
<td>Vobach Systems, Inc. 11104 Ashcroft Houston, TX 77096 -Dr. Miles Smither Circuit Concepts, Inc. (713) 331-2744</td>
<td>Shades DES, version 1.0 (software)</td>
<td>1/20/95</td>
<td>Used in Shades products to provide a source of pseudo-random numbers for two purposes. The pseudo-random numbers may be used to 1) encode a plaintext message or ciphertext, and 2) generate substitution or permutation tables for the numerical codings of plaintext characters.</td>
</tr>
<tr>
<td>Wells Fargo Security Products A Unit of Baker Protective Services 1010 North Glebe Road, Suite 680 Arlington, VA 22201 -William Martin (703) 247-4250</td>
<td>WP PN 5286/WP PN 5287</td>
<td>5/26/89</td>
<td>The monitor panels are intended for use in a monitoring station of a proprietary intrusion detection alarm system.</td>
</tr>
<tr>
<td></td>
<td>WD20C03 DES Device</td>
<td>5/19/87</td>
<td>Uses Si-gate CMOS, TTL compatible; ECB and CBC, speeds of up to 403 Kbytes/second, 645 Kbytes/second and 807 Kbytes/second in ECB. and 807 Kbytes/second in ECB.</td>
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## 6.7 FIPS 113, Computer Data Authentication Message Authentication Code (MAC) Implementations

<table>
<thead>
<tr>
<th>Vendor/Contact</th>
<th>Implementation</th>
<th>Validated Options</th>
<th>Vendor/Contact</th>
<th>Implementation</th>
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<tr>
<td>480 Spring Park Place Suite 600</td>
<td></td>
<td>May 16, 1986</td>
<td>342 Madison Avenue Suite 2010 New York, NY 10017</td>
<td></td>
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<tr>
<td>Herndon, VA 22070</td>
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<tr>
<td>Don Cole, (703) 471-0892</td>
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<tr>
<td>2. Federal Reserve Bank of Cleveland</td>
<td>Jones Futurex PC Encryption Board FRS PC MAC Processor</td>
<td>BINARY OPTION (FIPS 113)</td>
<td>10. Sytek, Inc.</td>
<td>MACbox</td>
<td>BINARY OPTION (FIPS 113)</td>
</tr>
<tr>
<td>P.O.B. 6387 Cleveland, Ohio 44101</td>
<td></td>
<td>October 28, 1986</td>
<td>Rights transferred to A&amp;T Research, Inc. on January 29, 1986 - see entry 17</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>A&amp;T Research</td>
<td>675 North First Street Suite 800 San Jose, CA 95112</td>
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<td></td>
<td></td>
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<td></td>
<td>Linden Feldman, (408) 275-0620</td>
<td></td>
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<tr>
<td>Mountain View, CA</td>
<td></td>
<td>January 16, 1987</td>
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<td></td>
<td>Charles Redding, (602) 948-2500</td>
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<tr>
<td>Rights transferred to LITRONICS Information Systems on Sept. 12, 1990 - see entry 23.</td>
<td></td>
<td>February 26, 1987</td>
<td>300 Fleet Road Fleet, Hampshire GU13 6BU England</td>
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<td></td>
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<td></td>
<td></td>
<td>Paul Halliden, (252) 622-1448, England</td>
<td></td>
</tr>
<tr>
<td>1033 Trade Center Drive Rancho Cordova, CA 95670</td>
<td></td>
<td>March 27, 1987</td>
<td>1 Seaport Plaza 11th Floor New York, New York 10036</td>
<td></td>
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<td>Charles Redding, (602) 948-2500</td>
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<td>Bob Martian, (212) 707-4036</td>
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<tr>
<td>6974 Sandpiper Place Carlsbad, CA 92009</td>
<td></td>
<td>May 11, 1987</td>
<td>2304 Zanker Road San Jose, CA 95131 Dale Hopkins, (408) 435-8650</td>
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<tr>
<td>David Howard, (619) 921-8787</td>
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<td>7. Inter-Quest, Inc.</td>
<td>Protecom Crypto Processor Protecom Device Driver &amp; Utilities, Version 0.5</td>
<td>BINARY OPTION (FIPS 113)</td>
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<tr>
<td>16508 E. Laser Drive Fountain Hills, AZ 85268</td>
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<tr>
<td>Charles Redding, (602) 948-2500</td>
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<tr>
<td>8. Infomax Securities</td>
<td>Protecom Crypto Processor Protecom Device Driver &amp; Utilities, Version 0.6</td>
<td>BINARY OPTION (FIPS 113)</td>
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<tr>
<td>6974 Sandpiper Place Carlsbad, CA 92009</td>
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<td>May 11, 1987</td>
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<td>David Howard, (619) 921-8787</td>
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<td>Vendor/Contact</td>
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<td>Steve Lawrence, (603) 884-3445</td>
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<td>30. Information Security Corporation</td>
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<td>Michael Markowitz, (708) 405-0500</td>
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<td>31. Digital Signature</td>
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<td>32. The Exchange Systems</td>
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<td>33. The Exchange Systems</td>
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### 6.8 FIPS 171, Key Management Validation Using ANSI X9.17

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| **1. LITRONICS Information Systems**  
2600 Redhill Avenue  
Costa Mesa, CA 92626  
(Originally validated by Coderand; rights transferred on September 11, 1990)  
Bob Gray, (714) 543-6049  
James Prohaska, (703) 960-6068 | Hardware: Argus-PC  
Model: CMS-100  
Software: Argus/MACE  
Software, Version: 1.0 | No. of communicating pairs: 2  
No. of manual (*)Ks per comm. pair: 2  
Length of manual and auto. (***)Ks: PAIR  
Key generation capability: YES  
Number of auto. distr. (***)Ks shared: UP TO 4  
Number of Ks shared: 2  
2 Ks in KSMs: SOMETIMES  
Send RSI messages: NOT TESTED  
Receive RSI messages: NOT TESTED  
Notarization of keys in KSMs: ALWAYS  
Send odd parity on keys in KSMs: ALWAYS  
Send IVs in KSMs: SOMETIMES  
Send encrypted IVs in KSMs: ALWAYS  
Send EDKs in KSMs: SOMETIMES  
Action if EDC received in KSMs and ESMs: NOT APPLICABLE  
Send EDKs in KSMs: SOMETIMES  
Action on count error: ADJUST COUNT  
Send DSMs: YES  
Receive DSMs: YES  
IDA in DSM only if one K can be shared: YES  
Role assumed: EITHER A OR B  
Automatic error recovery: NOT TESTED  
Space & CR/LF as field delimiter: NOT TESTED |
| **2. TECHNICAL COMMUNICATIONS CORPORATION**  
100 Domino Drive  
CONCORD, Massachusetts  
01742  
John Gill, (617) 862-6035 | Hardware: CX5000  
Software: Version 2.0 | No. of communicating pairs: 1  
No. of manual (**)Ks per comm. pair: 2  
Length of manual and auto. (**)Ks: PAIR  
Key generation capability: YES  
Number of auto. distr. (**)Ks shared: 2  
Number of Ks shared: 1  
2 Ks in KSMs: NEVER  
Send RSI messages: NOT TESTED  
Receive RSI messages: NOT TESTED  
Notarization of keys in KSMs: ALWAYS  
Send odd parity on keys in KSMs: ALWAYS  
Send IVs in KSMs: SOMETIMES  
Send encrypted IVs in KSMs: ALWAYS  
Send EDKs in KSMs: SOMETIMES  
Action if EDC received in KSMs and ESMs: NOT APPLICABLE  
Send EDKs in KSMs: SOMETIMES  
Action on count error: ADJUST COUNT  
Send DSMs: YES  
Receive DSMs: YES  
IDA in DSM only if one K can be shared: YES  
Role assumed: EITHER A OR B  
Automatic error recovery: NOT TESTED  
Space & CR/LF as field delimiter: NOT TESTED |
| **3. COMMUNICATION DEVICES, INC.**  
1 Forstmann Court  
Clifton, NJ 07011  
Gene Hartsell, (201) 772-6067 | Hardware: RSD/VE  
Software: Version 7.2 | No. of communicating pairs: 1  
No. of manual (**)Ks per comm. pair: 1  
Length of manual and auto. (**)Ks: PAIR  
Key generation capability: YES  
Number of auto. distr. (**)Ks shared: 1  
Number of Ks shared: 1  
2 Ks in KSMs: NEVER  
Send RSI messages: NOT TESTED  
Receive RSI messages: NOT TESTED  
Notarization of keys in KSMs: ALWAYS  
Send odd parity on keys in KSMs: ALWAYS  
Send IVs in KSMs: SOMETIMES  
Send encrypted IVs in KSMs: ALWAYS  
Send EDKs in KSMs: SOMETIMES  
Action if EDC received in KSMs and ESMs: NOT APPLICABLE  
Send EDKs in KSMs: SOMETIMES  
Action on count error: ADJUST COUNT  
Send DSMs: YES  
Receive DSMs: YES  
IDA in DSM only if one K can be shared: YES  
Role assumed: EITHER A OR B  
Automatic error recovery: NOT TESTED  
Space & CR/LF as field delimiter: NOT TESTED |

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| **4. TECHNICAL COMMUNICATIONS CORPORATION**  
100 Domino Drive  
CONCORD, Massachusetts  
01742  
John Gill, (617) 862-6035 | Hardware: CX5000  
Software: Version 2.0 | No. of communicating pairs: 1  
No. of manual (**)Ks per comm. pair: 2  
Length of manual and auto. (**)Ks: PAIR  
Key generation capability: YES  
Number of auto. distr. (**)Ks shared: 2  
Number of Ks shared: 1  
2 Ks in KSMs: NEVER  
Send RSI messages: NOT TESTED  
Receive RSI messages: NOT TESTED  
Notarization of keys in KSMs: ALWAYS  
Send odd parity on keys in KSMs: ALWAYS  
Send IVs in KSMs: SOMETIMES  
Send encrypted IVs in KSMs: ALWAYS  
Send EDKs in KSMs: SOMETIMES  
Action if EDC received in KSMs and ESMs: NOT APPLICABLE  
Send EDKs in KSMs: SOMETIMES  
Action on count error: ADJUST COUNT  
Send DSMs: YES  
Receive DSMs: YES  
IDA in DSM only if one K can be shared: YES  
Role assumed: EITHER A OR B  
Automatic error recovery: NOT TESTED  
Space & CR/LF as field delimiter: NOT TESTED |
7. PRODUCT DATA CONFORMANCE TESTING

7.1 IGES

FIPS 177, Initial Graphics Exchange Specifications (IGES) defines a neutral file format for the exchange of product model data and representation among differing computer-aided design and computer-aided manufacturing (CAD/CAM) systems. FIPS 177 adopts the ASME/ANSI Y14.26M, IGES version 4.0.

A revision to FIPS 177-1 (announced in Federal Register, April 12, 1995) will adopt the ANSI/US PRO 100 IGES, version 5.2. In accordance with FIPS 177-1, CAD/CAM systems acquired for Federal use shall include an IGES preprocessor and postprocessor capability. FIPS 177-1 requires that IGES implementations offered to Federal agencies be tested using the NIST IGES validation test suite. Conformance testing of IGES implementations protects Federal investments by ensuring adherence to the IGES specification and maximizing the probability of successful exchange among systems which implement IGES. The NIST IGES test procedures and test suites are available from:

Project Leader, IGES Validation Tests  
National Institute of Standards and Technology  
Bldg 225, Room A266  
Gaithersburg, MD 20899  
301-975-3265  
e-mail: igesinfo@nist.gov

7.1.1 Certification of Validation

The NIST IGES Validation Test service tests preprocessors and/or postprocessors for conformance to either IGES 4.0, IGES 5.2, or MIL-D-28000, Class II. Preprocessors and postprocessors are tested separately, using different test suites. A certificate of validation is issued for those processors that have been tested and are considered to be in compliance with FIPS 177. A registered report without certificate is issued for those processors that have been tested but contain errors.

7.1.2 IGES Validated Products

No entries at this time
APPENDIX A

FIPS CONFORMANCE TESTING
PRODUCTS AND SERVICES
APPENDIX A

FIPS CONFORMANCE TESTING
PRODUCTS AND SERVICES

The purpose of this appendix is to provide information about products and services that are available to Federal Agencies for assessing products for conformance to FIPS.

The entries in this list identify the topic, the standard tested, the NIST contact, and the product or service offered. The letters T, S, or C in the Product/Service column indicate a test method, testing service, or certificate/registered report respectively.

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| COBOL   | FIPS PUB 21-3  | Judy Kailey
          | NIST, Bldg. 225, Rm. A266 Gaithersburg, MD 20899
          | (301) 975-3259 | T, S, C |
| Fortran | FIPS PUB 69-1  | Judy Kailey
          | NIST, Bldg. 225, Rm. A266 Gaithersburg, MD 20899
          | (301) 975-3259 | T, S, C |
| Pascal  | FIPS PUB 109   | Carmelo Montanez (Technical)
          | NIST, Bldg. 225, Rm. A266 Gaithersburg, MD 20899
          | (301) 975-2398
          | Judy Kailey (Scheduling)
          | (301) 975-3259 | T, S, C |
| C       | FIPS PUB 160   | Carmelo Montanez (Technical)
          | NIST, Bldg. 225, Rm. A266 Gaithersburg, MD 20899
          | (301) 975-2398
          | Judy Kailey (Scheduling)
          | (301) 975-3259 | T, S, C |
| Ada     | FIPS PUB 119   | William Dashiell
          | NIST, Bldg. 225, Rm. A266 Gaithersburg, MD 20899
          | (301) 975-2490 | T, S, C |
| M (MUMPS)| FIPS PUB 125  | William Dashiell
            | NIST, Bldg. 225, Rm. A266 Gaithersburg, MD 20899
<pre><code>        | (301) 975-2490 | T, S, C |
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<td>SQL</td>
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