



Licensed Program Specifications

AIX XL Pascal Compiler/6000 Version 2 Release 1 Program Number 5765-245

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ANSI	American National Standards Institute, Inc.
NetLS, Network Licensing System	Apollo Computer, Inc., a subsidiary of Hewlett-Packard Co.

Product Description

The IBM* AIX* XL Pascal Compiler/6000 Version 2.1 is a licensed program product designed to offer a productive application development environment for Pascal application developers. It is a follow-on version of the AIX XL Pascal Compiler/6000 Version 1.1 program product (5601-254).

The AIX XL Pascal Compiler/6000 licensed program product includes the function of the XL Pascal runtime component. Applications developed using the AIX XL Pascal Compiler/6000 must be bound with the XL Pascal runtime component for execution. The runtime component may be bound using dynamic binding which requires that the XL Pascal runtime component be available at the time the application is executed. Alternatively, the runtime component may be statically bound to the application resulting in a larger object

module, but eliminating the requirement for the XL Pascal runtime component in the execution environment.

The XL Pascal runtime component library routines include support for the following types of functions that may be invoked by an XL Pascal program:

- Text file data transformations between the character form found in text files and the internal data formats
- Data file access and support functions
- String manipulation functions

AIX XL Pascal Compiler/6000: The XL Pascal compiler offers the following features:

- Improved execution performance
- Enhanced optimization level **-O3**
- POWER, POWER2*, and PowerPC* RISC System/6000 architectures are fully exploited
- Optional support for 4-byte Pascal **POINTER** data type
- Support for the Network Licensing System** (NetLS**) runtime program required to administer concurrent accesses to the XL Pascal license

Interlanguage Calls: Interlanguage calls allow Pascal programs written using XL Pascal to communicate with programs written in XL C/6000 and XL Fortran Compiler/6000.

AIX Tools Support

The following AIX tools will continue to work with XL Pascal:

- **dbx** symbolic debug program
- **prof** and **gprof** profilers
- **ld** linkage editor

These tools are part of AIX Version 3.2.5.

Specified Operating Environment

Machine requirements

This product is designed to run on the RISC System/6000 POWERstation* and POWERserver* hardware configured with at least one supported display and keyboard or one ASCII terminal.

The minimum hardware requirements for the IBM AIX XL Pascal Compiler/6000 Version 2.1 are:

- RISC System/6000 system with a minimum of 16 MB of RAM
- 8 MB of DASD for Licensed Program Materials
- 64 MB of paging space

Programming Requirements

The following programs are required for the AIX XL Pascal Compiler/6000:

- IBM AIX Version 3.2.5 for RISC System/6000 (5756-030) or later, with TCP/IP installed
or
- IBM AIX Version 3.2.5 for RISC System/6000 (5756-030) Japanese Kanji support (5621-012) or later, with TCP/IP installed

Standards Conformance

The XL Pascal compiler conforms to the following industry standards:

- ANSI/IEEE 770X3.97-1983, American National Standard Pascal Computer Programming Language
- ISO 7185-1983, Computer Programming Language Pascal — Level 0
- FIPS PUB 109 — Pascal.

Compatibility

AIX XL Pascal Compiler/6000 is source-code compatible with IBM VS Pascal (5668-767 and 5668-717) with some exceptions.

Licensed Program Materials Availability

- Restricted Material: None.
- These licensed programs are available without source licensed program materials. They are available in object code only.

Supplemental Terms

Machine-Readable Documentation

The following general terms and conditions apply to customer use and reproduction of the machine-readable documentation provided with the AIX Version 3 for RISC System/6000:

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Testing Period

- Basic License: Two months.
- DSLO License: Not applicable.

Installation/Location License

Not applicable. A separate license is required for each designated machine on which the licensed program materials will be used. See the following section for usage restrictions.

Usage Restriction

A concurrent-access charge applies to this licensed program.

- XL Pascal is licensed under the control of Network Licensing System (NetLS). Each concurrent access to the licensed program requires a concurrent-access feature (NetLS token). When the licensed program has completed execution, the token is returned and made available for use again.

- The number of concurrent-access features ordered must be equal to or greater than the number of concurrent accesses required.
- To increase the number of concurrent accesses, additional concurrent-access features must be ordered and a new password obtained.
- The NetLS runtime program required to administer the number of concurrent accesses is supplied with XL Pascal

Type/Duration of Program Services

IBM Central Service, including IBM Support Center, will be available until discontinued by IBM with a minimum of six months written notice.

Redistribution Information

Only the following AIX XL Pascal Compiler/6000 modules may be copied onto your application distribution media when your application is dependent on them:

- XL Pascal library **libxlp.a**
- XL Pascal message catalogs:
 - **xlp00.cat**
 - **xlp01.cat**
 - **xlp02.cat**
 - **xlp03.cat**

You may distribute the above modules as part of your software programs provided that you:

- Reproduce and distribute the modules in object-code format only, excluding header files.
- Reproduce or distribute the modules only as part of an executable software program or application.
- Do not use IBM's name, logo, or trademarks to market software products containing the modules.

- Do not include any other part of the software as part of an executable software program.

Each distribution copy of any of the above modules must be labelled as follows:

Contains IBM AIX XL Pascal Compiler/6000 runtime modules. (c) Copyright IBM Corporation 1990, 1993. All Rights Reserved.

Copies of these modules are provided "AS IS".

The label information is not required for source and object code that is integrated into your application program during the normal compilation process.

Warranty

This program is warranted as specified in the IBM license.

Licensed Program Specifications may be updated from time to time and such updates may constitute a change in specifications.

For Distributed Systems License Option (DSLO) Licenses, warranty service, if any, will be provided only through the Basic License location.

Following the discontinuance of all program services, this program will be provided "As Is" as specified in the IBM license.

Bibliography

Z125-3358 Agreement for IBM Licensed Programs
Z125-3359 Supplemental to Agreement for IBM Licensed Programs
ZZ27-1965 IBM Information Development Guideline: Licensed Programs



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