

Enterprise PL/I for z/OS
6.1

Licensed Program Specifications



First Edition (May 2022)

This edition applies to Version 6 Release 1 of IBM® Enterprise PL/I for z/OS® (program number 5655-PL6) and to all subsequent releases and modifications until otherwise indicated in new editions. Make sure that you are using the correct edition for the level of the product.

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Chapter 1. Enterprise PL/I for z/OS 6.1 – Program Number 5655-PL6

Enterprise PL/I is a leading-edge compiler for IBM z/OS that helps you create and maintain mission-critical, line-of-business PL/I applications to execute on your z/OS operating systems. The applications that are created by using Enterprise PL/I can interoperate with IBM CICS®, IBM Db2®, IBM IMS, and other transactional and data systems.

This compiler can help facilitate your new, on-demand business endeavors by helping to integrate PL/I and web-based business processes in web services, XML, Java™, and PL/I applications. This compiler's interoperability helps you capitalize on your existing IT investments while more smoothly incorporating new, web-based applications as part of your organization's infrastructure.

Version 6.1 offers:

- Utilization of the new IBM z16 processor and architecture
- Support for 31-bit to 64-bit and 64-bit to 31-bit interoperability so that you have flexibility to mix components of your 31-bit and 64-bit PL/I programs
- New and enhanced features that allow you to modernize your existing PL/I applications
- Features that allow for easier problem resolution
- Features that improve support for date/time handling
- Inclusion of 30 additional features implemented in the previous release through the continuous delivery (CD) model

Enterprise PL/I for z/OS 6.1 reinforces the continuing IBM commitment to the PL/I programming language on the z/OS platform and the continued delivery of new features.

With Enterprise PL/I for z/OS 6.1, you can take advantage of more than 50 years of IBM experience in PL/I compiler development.

Highlights

IBM Enterprise PL/I for z/OS 6.1 adds support for the IBM z16 architecture so that you can take advantage of the latest IBM z/Architecture®. It delivers new features and enhancements that:

- Enable 31-bit to 64-bit and 64-bit to 31-bit interoperability so that you can have your 31-bit PL/I programs work with your 64-bit PL/I programs or vice versa
- Accelerate the ability to modernize your PL/I applications by introducing several modernization features, such as improved usage of JSON and more built-in functions
- Help you integrate PL/I and web-based business processes in web services, XML, Java, and PL/I applications
- Increase your ability to perform problem resolution
- Improve support for date/time handling
- Integrate several enhancements previously made available to you through the CD model

Specified operating environment for Enterprise PL/I

This section lists the hardware and software requirements for IBM Enterprise PL/I for z/OS 6.1.

Hardware requirements

Enterprise PL/I for z/OS 6.1 runs and generates code that runs on the following IBM Z® servers:

- IBM z16

- IBM z15™ Models T01 and T02
- IBM z14® Models M01-M05
- IBM z14 ZR1
- IBM z13®
- IBM z13s®
- IBM zEnterprise® EC12 (zEC12)
- IBM zEnterprise BC12 (zBC12)

Software requirements

Enterprise PL/I for z/OS 6.1 runs under the control of, or in conjunction with, the currently supported releases of the following programs and their subsequent releases or their equivalents. For more information on the following programs listed that require PTFs, see the *Program Directory* and the preventive service planning (PSP) bucket.

Required licensed programs

- z/OS 2.4 (5650-ZOS), or later, is required.
- For installation on z/OS, z/OS SMP/E is required.

Optional licensed programs

Depending on the functions used, one or more of the following programs may be required:

- IBM CICS Transaction Server for z/OS 5 (5655-Y04)
- IBM CICS Transaction Server for z/OS Value Unit Edition 5 (5722-DFJ)
- Enterprise COBOL for z/OS 6 (5655-EC6)
- Enterprise PL/I for z/OS 5 (5655-PL5)
- IBM Debug for z/OS 15.0 (5755-Q50)
- IBM Debug for z/OS 14.2 (5655-Q50)
- IBM DFSORT element of z/OS (5650-ZOS)
- IBM z/OS High Level Assembler/MVS and VM and VSE (5696-234)
- IBM Fault Analyzer for z/OS 14.1 (5655-Q41)
- IBM File Manager for z/OS 14.1 (5655-Q42)
- IBM Application Performance Analyzer for z/OS 14.2 (5655-Q49)
- IBM IMS 15 (5635-A06)
- IBM IMS Transaction Manager Value Unit Edition 15 (5655-TM4)
- IBM Developer for z/OS 15 (5724-T07)
- IBM Developer for z/OS 14.2 (5724-T07)
- IBM VS FORTRAN 2 (5688-087)
- IBM Application Delivery Foundation for z/OS 3.3 (5655-AC6)
- IBM Application Delivery Foundation for z/OS 3.2 (5655-AC6)
- For XL C/C++ with Enterprise PL/I, you must use the XL C/C++ feature of z/OS 2.4 (5650-ZOS), or later.

Security, auditability, and control

The announced program uses the security and auditability features of the host operating system software. The customer is responsible for evaluation, selection, and implementation of security features, administrative procedures, and appropriate controls in application systems and communication facilities.

Licensed program materials availability

Restricted materials: No. This licensed program is available without source licensed program materials. It is available in object code only.

Supplemental terms

Designated Machine Identification

Designated Machine Identification Required: Yes.

Testing period

- **Basic License:** Not applicable.
- **DSLO License:** Not applicable.

Installation or location license

Not applicable. A separate license is required for each machine on which the licensed program will be used.

Use-based charges/usage restriction

Not applicable.

Usage restriction

Not applicable.

Type/duration of program services

- Central Service.
- Until discontinued by IBM with a minimum of twelve months' written notice.

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This document is a W3C Recommendation. This fifth edition is not a new version of XML. As a convenience to readers, it incorporates the changes dictated by the accumulated errata (available at <http://www.w3.org/XML/xml-v10-4e-errata>) to the Fourth Edition of XML 1.0, dated 16 August 2006. In particular, erratum [E09] relaxes the restrictions on element and attribute names, thereby providing in XML 1.0 the major end user benefit currently achievable only by using XML 1.1. As a consequence, many possible documents which were not well-formed according to previous editions of this specification are now well-formed, and previously invalid documents using the newly-allowed name characters in, for example, ID attributes, are now valid.

This edition supersedes the previous W3C Recommendation of 08 September 2017.

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An implementation report is available at <http://www.w3.org/XML/2008/01/xml10-5e-implementation.html>. A Test Suite is maintained to help assessing conformance to this specification.

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