Product Standard

Operating System and Languages:
Pascal Language

The Open Group

Copyright © January 1998, The Open Group

All rights reserved.

No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording or otherwise, without the prior permission of the copyright owners.

Motif,® OSF/1,® UNIX,® and the "X Device"® are registered trademarks and IT DialTone™ and The Open Group™ are trademarks of The Open Group in the U.S. and other countries.

Product Standard

Operating System and Languages: Pascal Language

Document Number: X98LP

Published in the U.K. by The Open Group, January 1998.

Any comments relating to the material contained in this document may be submitted to:

The Open Group
Apex Plaza
Forbury Road
Reading
Berkshire RG1 1AX
U.K.

Or by email to:

OGSpecs@opengroup.org

Product Standard

NAME

Pascal Language

LABEL FOR LOGO

No label.

DESCRIPTION

Pascal language definition. The X/Open specification for Pascal is the formal definition given in ISO 7185: 1983 (level 1) (Pascal).[1]

CONFORMANCE REQUIREMENTS

The X/Open specification for Pascal is the formal definition given in ISO 7185: 1983 (level 1) (Pascal). In order to enhance the portability of Pascal programs on conformant systems, a uniform definition has been provided for certain features designated as implementation-defined in ISO 7185: 1983 (level 1) (Pascal), as follows:

- When the required identifiers **input** and **output** occur as program parameters they shall be bound by default to the external system files STDIN and STDOUT respectively.
- There shall be no implementation-dependent restrictions on the base-type of a set-type which disallow 0 as the minimal ordinal value and 255 as the maximum ordinal value of that base-type.
- Lazy Input: The underlying data transfer action required for a call to the predefined procedure **get** for a textfile (both explicit and where implied by **reset** and **read**), shall be postponed until one of the following events should occur:
  - — Access to the buffer-variable of the file
  - — The buffer-variable of the file is passed as an actual variable parameter to a procedure or function
  - — A call to the predefined function **eoln** for that file
  - — A call to the predefined function **eof** for that file

1. ISO 7185:1983 (level 1), Programming Languages — Pascal.

Human-Computer Interface

Not applicable.

Portability Interface

ISO 7185: 1983 (level 1) (Pascal), with the additional requirements specified above.

Programming Language Environment

Not applicable.

This Product Standard defines the X/Open Pascal Language.

Interoperability

- Data Interchange Formats

  None.

- Communications Interfaces and Protocols

  None.

OPERATIONAL ENVIRONMENT

Not applicable.

PORTABILITY ENVIRONMENT

XPG3 Internationalized System Calls and Libraries, Internationalized System Calls and Libraries, Internationalized System Calls and Libraries Extended, or Internationalized System Calls and Libraries Extended V2.

OVERRIDING STANDARDS

ISO 7185: 1983 (level 1) (Pascal).

INDICATORS OF COMPLIANCE

Any of the following:

- Current NIST certificate of Pascal language validation.
- A current certificate of Pascal language validation issued by a member of the GLATC European testing agreement group registered under ECITC.
- A Test Report from a currently authorized release of the BSI Pascal Test Suite.

MIGRATION

Identical to the XPG3 Pascal Language Product Standard.