Product Standard

Operating System and Languages:

C Language

The Open Group
Product Standard
Operating System and Languages: C Language
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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
C Language

LABEL FOR LOGO
No label.

DESCRIPTION
ISO C and X/Open Common Usage C Language definitions. Common Usage C is retained for compatibility with XPG3 applications. ISO C is replacing Common Usage C over time.

CONFORMANCE REQUIREMENTS

Human-Computer Interface
Not applicable.

Portability Interface
X/Open Common Usage C, defined in Programming Languages, Issue 3\(^1\), Chapters 1 to 4, C Language.
ISO C, defined in ISO/IEC 9899:1990 (C Language).\(^2\)

Programming Language Environment
Not applicable.
The referenced specifications define the ISO C and X/Open Common Usage C dialects.

Interoperability
• Data Interchange Formats
  None.

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• Communications Interfaces and Protocols
  None.

OPERATIONAL ENVIRONMENT
Not applicable.

PORTABILITY ENVIRONMENT

OVERRIDING STANDARDS
The X/Open specification of ISO C is a direct reference to ISO/IEC 9899:1990 (C Language). Deference is therefore not applicable. X/Open Common Usage C does not defer to any formal standard.

INDICATORS OF COMPLIANCE
Support for both ISO C and Common Usage C is a mandatory requirement for conformance to this Product Standard, and there are separate Indicators of Compliance for each of these language dialects as defined below:

• ISO C
  Any of the following:
  — Current NIST certificate of ANSI/ISO C-language validation.
  — Current entry in the NIST register of validated language processors for ANSI/ISO C Language indicating no non-conformities.
  — Current Certificate of ANSI/ISO C-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 either the Perennial ANSI C Validation Suite or the Plum-Hall C Validation Suite, together with the checklist of Implementation-defined Features.

• Common Usage C
  A Test Report from a currently authorized release of the VSX C Language test suite.

MIGRATION
For a description of the migration path to ISO C, refer to the generally available literature.