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Information technology — Programming languages, their environments and system software interfaces — Extensions to the C Library to support mathematical special functions

Technologies de l'information — Langages de programmation, leur environnement et interfaces des logiciels de systèmes — Extensions à la bibliothèque C pour supporter les fonctions mathématiques spéciales

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Foreword

ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission) form the specialized system for worldwide standardization. National bodies that are members of ISO or IEC participate in the development of International Standards through technical committees established by the respective organization to deal with particular fields of technical activity. ISO and IEC technical committees collaborate in fields of mutual interest. Other international organizations, governmental and non-governmental, in liaison with ISO and IEC, also take part in the work. In the field of information technology, ISO and IEC have established a joint technical committee, ISO/IEC JTC 1.

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The main task of the joint technical committee is to prepare International Standards. Draft International Standards adopted by the joint technical committee are circulated to national bodies for voting. Publication as an International Standard requires approval by at least 75 % of the national bodies casting a vote.

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Introduction

This International Standard is divided into three major subdivisions:

— preliminary elements (clauses 1 - 4);

— indicating conformance (clause 5);

— the library facilities (clause 6).

Footnotes are provided to emphasize consequences of the rules described in that subclause or elsewhere in this International Standard. References are used to refer to other related documents and subclauses. A bibliography lists documents that were referred to during the preparation of this International Standard.

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Information technology — Programming languages, their environments and system software interfaces — Extensions to the C Library to support mathematical special functions

1 Scope [scop]

1.1 Relation to C Standard Library Introduction [descr]

1 This International Standard defines extensions to the *C standard library* that is defined in the International Standard for the C programming language, see Clause 2.

2 Unless otherwise specified, the whole of the *C* Standard Library is included into this International Standard by reference, see Clause 2.

1.2 Categories of extensions [exten]

1 This International Standard defines library extensions to the C Standard Library to support Mathematical Special functions to be added to `<math.h>` and `<tgmath.h>`.

Table 1: Numerical library summary

Subclause	Header(s)
6.2 Additions to	`<math.h>`
6.3 Additions to	`<tgmath.h>`

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2 Normative references [norm]

1 The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

2 ISO/IEC 9899:1999, *Programming languages — C*

3 ISO/IEC 9899:1999/Cor. 1:2001, *Programming languages — C — Technical Corrigendum 1*

4 ISO/IEC 9899:1999/Cor. 2:2004, *Programming languages — C — Technical Corrigendum 2*

5 ISO/IEC 9899:1999/Cor. 3:2007, *Programming languages — C — Technical Corrigendum 3*

6 ISO/IEC 2382-1:1993, *Information technology — Vocabulary — Part 1: Fundamental terms*

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