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AS/NZS 1486:1993

ISO/IEC 1539:1991

Australian/New Zealand Standard

Information technology—Programming languages—Fortran 90

[ISO/IEC title: Information technology—Programming languages—Fortran]

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This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee IT/9, Information Systems Vocabulary and Software. It was approved on behalf of the Council of Standards Australia on 20 April 1993 and on behalf of the Council of Standards New Zealand on 20 September 1993. It was published on 16 August 1993.

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AS/NZS 1486:1993

Australian/New Zealand Standard

Information technology—Programming languages—Fortran 90

First published as AS 1486—1973.
Second edition 1983.
Jointly revised and designated as Joint Standard AS/NZS 1486:1993.

PUBLISHED JOINTLY BY:

STANDARDS AUSTRALIA
1 The Crescent,
Homebush NSW 2140 Australia

STANDARDS NEW ZEALAND
Level 10, Standards House,
155 The Terrace,
Wellington 6001 New Zealand

ISBN 0 7262 8245 6

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PREFACE

This Standard was prepared by the Joint Australia/New Zealand Standards Committee on Information Systems—Vocabulary and Software. It is identical with, and has been reproduced from, ISO/IEC 1539:1991, *Information technology—Programming languages—Fortran*.

This Standard supersedes the previous Australian Standard AS 1486—1983, *Programming Language FORTRAN* (also known informally as *FORTRAN 77*) which will remain current. The new version is a Joint Standard AS/NZS 1486:1993, *Information technology—Programming Languages—Fortran 90*, and will be maintained as a separate Standard from AS 1486—1983 in Australia, for the following reasons:

(a) There is expected to be a considerable use of both Standards for different purposes for some years; it would be premature to withdraw AS 1486—1993 at this time;

(b) It is expected that the cost of efficient implementations of Fortran 90 will restrict its initial use to high cost, specialized architecture, computer systems with vector and array processor architecture, while FORTRAN 77 will continue in use on many more conventional and smaller systems; and

(c) Despite the fact that the Fortran 90 Standard is largely upwards compatible with FORTRAN 77 (that is, nearly all FORTRAN 77 programs are acceptable without change and have unchanged effect under Fortran 90), there are many additional features of Fortran 90. These make the two versions of Fortran sufficiently different that unqualified references to 'Fortran', without specifying the version, will cause confusion. Having two separate clearly identified Standards, named appropriately, will help to minimize confusion.

Under arrangements made between Standards Australia/Standards New Zealand and the international Standards bodies, ISO and IEC, as well as certain other Standards organizations, users of this Joint Standard are advised of the following:

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For the purposes of this Joint Standard, the ISO/IEC text should be modified as follows:

(i) *Terminology* The words 'Australian Standard', 'New Zealand Standard' or 'Joint Australian/New Zealand Standard' should replace the words 'International Standard' wherever they appear.

(ii) *References* The reference to International Standards should be replaced by references to the following Australian/New Zealand Standards.

Reference to International Standard or other publication		*Australian/New Zealand Standard*	
ISO		AS	
8601	Data elements and Interchange Formats—Information interchange—Representation of dates and times	3802	Data elements and interchange formats—Information interchange—Representation of dates and times
646	Information processing—ISO 7-bit coded character set for information interchange	1776	Information processing—7-bit coded character set for information interchange
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CCIR	Recommendation 460-2	—	

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