

Universal Multiple-Octet Coded Character Set
International Organization for Standardization
Международная организация по стандартизации

Doc Type: Working Group Document
Title: Additional Math characters for the UCS
Source: Michael Everson
Status: Working Document
Date: 1998-05-25

This document proposes several mathematical characters for inclusion in the UCS, and discusses the rationale for their inclusion.

These characters derive from ISO/TC46/SC4 standard ISO 6862:1996.

The characters proposed to be added here are given below, with proposed code positions. The proposal summary form is appended thereafter.

22F2 VECTOR OR SUM

22F3 VECTOR PRODUCT

22F4 SUM OR UNION OF CLASSES OR SETS

22F5 PRODUCT OF INTERSECTION OF CLASS-
ES OR SETS

22F6 IS INCLUDED IN SET

22F7 INCLUDES IN SET

22F2:



22F3:



22F4:



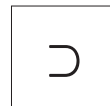
22F5:



22F6:



22F7:



A. Administrative

1. Title

Additional Math characters for the UCS

2. Requester's name

Michael Everson, EGT (WG2 member for Ireland)

3. Requester type

Expert contribution

4. Submission date

1998-05-25

5. Requester's reference

6a. Completion

This is a complete proposal.

6b. More information to be provided?

No

B. Technical -- General

1a. New script? Name?

No.

1b. Addition of characters to existing block? Name?

Yes. Mathematical symbols

2. Number of characters

6

3. Proposed category

Category A

4. Proposed level of implementation and rationale

Level 1 noncombining characters.

5a. Character names included in proposal?

Yes

5b. Character names in accordance with guidelines?

Yes

5c. Character shapes reviewable?

Yes

6a. Who will provide computerized font?

Michael Everson, Everson Gunn Teoranta

6b. Font currently available?

Yes

6c. Font format?

TrueType

7a. Are references (to other character sets, dictionaries, descriptive texts, etc.) provided?

Yes. ISO 6862:1996

7b. Are published examples (such as samples from newspapers, magazines, or other sources) of use of proposed characters attached?

Hardcopy is provided to WG2 for distribution.

See also <http://www.indigo.ie/egt/standards/iso10646/pdf/iso-6862.pdf>

8. Does the proposal address other aspects of character data processing?

No.

C. Technical -- Justification

1. Contact with the user community?

Yes: ISO/TC46/SC4, U.S. Library of Congress

2. Information on the user community?

Users of ISO 6862:1996

3a. The context of use for the proposed characters?

Mathematic representations. Compatibility with ISO 6862:1996

3b. Reference

See above

4a. Proposed characters in current use?

Yes

4b. Where?

In implementations of ISO 6862:1996

5a. Characters should be encoded entirely in BMP?

Yes.

5b. Rationale

Contemporary use and keeping them with the other Math characters.

6. Should characters be kept in a continuous range?

No.

7a. Can the characters be considered a presentation form of an existing character or character sequence?

No.

7b. Where?

7c. Reference

8a. Can any of the characters be considered to be similar (in appearance or function) to an existing character?

Yes, there are some similar characters but they are also found in ISO 6862:1996; these characters here are differentiated from them in the code table and are smaller than the other characters, which have been mapped to existing UCS characters.

See <http://www.indigo.ie/egt/standards/iso10646/pdf/iso-6862.pdf>

8b. Where?

8c. Reference

9a. Combining characters or use of composite sequences included?

No

9b. List of composite sequences and their corresponding glyph images provided?

10. Characters with any special properties such as control function, etc. included?

No

D. SC2/WG2 Administrative

To be completed by SC2/WG2

1. Relevant SC 2/WG 2 document numbers:

2. Status (list of meeting number and corresponding action or disposition)

3. Additional contact to user communities, liaison organizations etc.

4. Assigned category and assigned priority/time frame

Other Comments