

Information processing systems – Computer graphics – Programmer's Hierarchical Interactive Graphics System (PHIGS) –

Part 1: Functional description

TECHNICAL CORRIGENDUM 1

*Systèmes de traitement de l'information – Infographie – Interface de programmation du système graphique hiérarchisé
(PHIGS) –*

Partie 1: Description fonctionnelle

RECTIFICATIF TECHNIQUE 1

Technical corrigendum 1 to International Standard ISO/IEC 9592-1:1989 was prepared by Joint Technical Committee ISO/IEC JTC 1, Information technology.

Page 29

Subclause 4.4.5

Replace the third paragraph with the following:

A function is provided to delete a structure network. The DELETE STRUCTURE NETWORK function will delete the indicated structure and structures in the structure network originating with the specified structure. The handling of structures referenced by other structures outside the specified structure network is controlled by a reference handling flag. When this flag is specified as KEEP, those structures of the specified structure network which have at least one maximal ancestor path which does not contain the specified structure are not deleted. Those structures of the specified structure network for which all maximal ancestor paths contain the specified structure are deleted as if DELETE STRUCTURE were called to delete each structure individually. A maximal ancestor path of a structure S is a path ((A1,E1),(A2,E2), ..., (S,0)) where A1 is not referenced in any EXECUTE STRUCTURE element in the CSS. When this flag is specified as DELETE each structure of the specified structure network is deleted as if DELETE STRUCTURE were called to delete each structure individually. The specified structure is deleted; the effect is the same as if DELETE STRUCTURE were called with the specified structure.

Page 30

Subclause 4.4.6

Third paragraph, change "path order" to "truncation method" in two places.

Page 32

Subclause 4.4.7

Fourth paragraph, change "path order" to "truncation method" in two places.

Page 43

Subclause 4.5.3

Replace the third paragraph with the following:

The linewidth is calculated as a nominal linewidth multiplied by the linewidth scale factor. If necessary, the linewidth scale factor is adjusted by the workstation to give the nearest available linewidth. For example, if the value is less than or equal to zero (0), the thinnest available linewidth is used.

Page 44

Subclause 4.5.4

Replace the third paragraph with the following:

The marker size is calculated as a nominal marker size multiplied by the marker size scale factor. If necessary, the marker size scale factor is adjusted by the workstation to give the nearest available marker size. For example, if the value is less than or equal to zero (0), the smallest available marker size is used. Marker type 1 is always displayed as the smallest displayable dot.

Page 60

Subclause 4.5.8

In the sentence beginning "The pattern box is...", insert the words "of equal size" after the word "cells".

Page 65

Subclause 4.5.15

Final paragraph, replace the second and third sentences with the following:

The range of accessible names shall be $[0..(\text{number of available names}-1)]$ and during traversal, any NAME SET shall be able to contain all of the names in that range. In addition, workstation filters shall be able to contain all of the names in that range.

Page 67

Subclause 4.6.1

First paragraph, replace the fifth sentence with the following:

Data in the centralized structure store may be displayed under application control on any open workstation which has output capability.

Page 76

Subclause 4.6.6

Second paragraph, add the words "or through registration" at the end of the second sentence.

Page 87

Subclause 4.7.5

In the first full paragraph, add the word "boundaries" after "view window" in the fifth line.

Page 92

Subclause 4.7.7

Sixth paragraph, first sentence, insert the text "(without regard to the current clipping indicators)" after the words "clipping limits" in the first line.

Page 98

Subclause 4.8.3

Add the following text to the end of the second last paragraph:

For the Prompt and Echo Types (PETs) defined in 5.10.2, the measure value is not changed when a trigger is received. For other registered or implementation-defined PETs, the description of the PET should document the impact on the measure value when a trigger is received while in EVENT mode.

Page 100

Subclause 4.8.4

Item b), first sentence and item e), first sentence, insert the text "(without regard to the current clipping indicators)" after the words "clipping limits".

Page 102

Subclause 4.8.6

Item a), delete the third and fourth sentences.

Page 120

Subclause 5.2

Item f), in the note, replace "INQUIRE WORKSTATION STATE" with "INQUIRE DISPLAY UPDATE STATE".

Page 134

Subclause 5.4.2

SET LINETYPE Effect section, replace the final paragraph with the following:

When an element of this type is interpreted, if the element's linetype is not available on the workstation, the 'current linetype' entry in the PHIGS traversal state list is set to 1.

Page 135

Subclause 5.4.2

SET LINEWIDTH SCALE FACTOR Effect section, replace the final paragraph with the following:

When an element of this type is interpreted, the element's linewidth scale factor value is multiplied by the nominal linewidth on a workstation; if the resulting linewidth is not available on the workstation, the linewidth scale factor is adjusted to give the nearest available linewidth.

SET POLYLINE COLOUR INDEX Effect section, replace the final paragraph with the following:

When an element of this type is interpreted, if the element's polyline colour index is not available on the workstation, the 'current poyline colour index' entry in the PHIGS traversal state list is set to 1.

Page 136

Subclause 5.4.2

SET MARKER SIZE SCALE FACTOR Effect section, replace the final paragraph with the following:

When an element of this type is interpreted, the element's marker size scale factor value is multiplied by the nominal marker size on a workstation; if the resulting marker size is not available on the workstation, the marker size scale factor is adjusted to give the nearest available marker size.

Page 149

Subclause 5.4.2

ADD NAMES TO SET Effect section, add a third paragraph as follows:

When an element of this type is interpreted, only those members of the name set associated with the element which are contained in the range [0..(number of available names - 1)] are processed. Any members of the name set associated with the element which are outside of the range [0..(number of available names - 1)] are ignored.