

# INTERNATIONAL STANDARD

**ISO/IEC  
9593-3**

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**AMENDMENT 1**  
1994-06-15

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## Information technology — Computer graphics — Programmer's Hierarchical Interactive Graphics System (PHIGS) language bindings —

iTech STANDARD PREVIEW  
Part 3:  
Ada ([standards.iteh.ai](https://standards.iteh.ai/catalog/standards/sistc/ad7225-b362-4c14-b0a2-3c72f000421d/iso-iec-9593-3-1990-amd-1-1994))

**AMENDMENT 1: Incorporation of PHIGS PLUS**  
<https://standards.iteh.ai/catalog/standards/sistc/ad7225-b362-4c14-b0a2-3c72f000421d/iso-iec-9593-3-1990-amd-1-1994>

*Technologies de l'information — Infographie — Interfaces langage avec système  
graphique hiérarchisé interactif de programmation —*

*Partie 3: Ada*

*AMENDEMENT 1: Incorporation du PHIGS PLUS*



Reference number  
ISO/IEC 9593-3:1990/Amd.1:1994(E)

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[ISO/IEC 9593-3:1990/Amd 1:1994](#)  
<https://standards.iteh.ai/catalog/standards/sist/c7ad7225-b362-4cf4-b0a2-3c72f000421d/iso-iec-9593-3-1990-amd-1-1994>

## 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 take part in this work.

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In the field of information technology, ISO and IEC have established a joint technical committee, ISO/IEC JTC 1. 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.  
<https://standards.itachi.jp/tc1/standard/iso-iec-9593-3-1990-amd-1-1994-3c72f000421d/iso-iec-9593-3-1990-amd-1-1994>

Amendment 1 to International Standard ISO/IEC 9593-3:1990 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*.

## Introduction

*page vi:* The following text should replace the text in the Introduction.

Part 1 of PHIGS, ISO/IEC 9592-1 : 1989, provides a set of functions for the display and modification of 2D or 3D graphical data. Part 1 is extended by Part 4 (PHIGS PLUS) to incorporate the effects of lighting, shading, and other properties that are important for the display of surfaces and multidimensional data.

ISO/IEC 9592-1 and ISO/IEC 9592-4 are specified in a language independent manner and must be embedded in language dependent layers (language bindings) for use with particular programming languages.

The purpose of this document is to define a standard binding of ISO/IEC 9592-4 to the Ada computer programming language.

<http://standards.iec.ch/cgi-bin/standards/sist/c7ad7225-b362-4cf4-b0a2-3c72f000421d/iso-iec-9593-3-1990-amd-1-1994>

# Information technology — Computer graphics — Programmer's Hierarchical Interactive Graphics System (PHIGS) language bindings —

## Part 3:

Ada

## AMENDMENT 1: Incorporation of PHIGS PLUS

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*page 1:* The following phrase (standards.iteh.ai) should be inserted on a line following the word "Ada" in the title.

### to include PHIGS Part 4 (PHIGS PLUS)

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## 1 Scope

*page 1:* The following text should replace the text in clause 1 of ISO/IEC 9593-3:

ISO/IEC 9592-1 and ISO/IEC 9592-4 specify a language independent nucleus of a graphics system. For integration into a programming language, PHIGS and PHIGS PLUS are embedded in a language dependent layer obeying the particular conventions of that language. This part of ISO/IEC 9593 specifies such a language dependent layer for the Ada computer programming language.

## 2 Normative references

*page 2:* The following reference should be added:

ISO/IEC 9592-4 : 1992, *Information processing systems - Computer graphics - Programmer's Hierarchical Interactive Graphics System (PHIGS) — Part 4 - Plus Lumière und Surfaces (PHIGS PLUS).*

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(standards.iteh.ai)**

[ISO/IEC 9593-3:1990/Amd 1:1994](#)

<https://standards.iteh.ai/catalog/standards/sist/c7ad7225-b362-4cf4-b0a2-3c72f000421d/iso-iec-9593-3-1990-amd-1-1994>

## 3 Principles

*page 3:* No changes.

### 3.1 Conformance

*page 3:* The following should be added to the list:

- To conform with PHIGS, the implementation shall correctly implement the binding defined in clauses 4 and 5; to conform with PHIGS PLUS, the implementation shall correctly implement the binding defined in clauses 4, 5, 6, and 7.
- A PHIGS Ada application should run without modification under a PHIGS PLUS Ada binding implementation.

[ISO/IEC 9593-3:1990/Amd 1:1994](#)

<https://standards.iteh.ai/catalog/standards/sist/c7ad7225-b362-4cf4-b0a2-3c72f000421d/iso-iec-9593-3-1990-amd-1-1994>

### 3.2 Implications of the Language

*page 3:* No changes.

#### 3.2.1 Functional Mapping

*pages 3 and 4:* No changes.

#### 3.2.2 Implementations and Host Dependencies

*page 4:* No changes.

### 3.2.3 Error Handling

*page 4:* No changes.

### 3.2.4 Data Mapping

*pages 4 to 6:* No changes.

### 3.2.5 Multi-tasking

*page 6:* No changes.

### 3.2.6 Packaging

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*page 6 and 7:* No changes.

[ISO/IEC 9593-3:1990/Amd 1:1994](#)

<https://standards.iteh.ai/catalog/standards/sist/c7ad7225-b362-4cf4-b0a2-3c72f000421d/iso-iec-9593-3-1990-amd-1-1994>

### 3.2.7 Application Program Environment

*page 7:* No changes.

### 3.2.8 Registration

*page 7:* No changes.

## 4 Tables

*page 8:* No changes.

### 4.1 Abbreviations used in procedure names

*page 8:* No changes.

#### 4.1.1 List of procedures using the abbreviations (standards.iteh.ai)

*pages 8 to 10:* The following should be added to the list of procedures using the abbreviation INQ:  
[ISO/IEC 9593-3:1990/Amd 1:1994](#)

INQ	<a href="https://standards.iteh.ai/itah/standards/sist/c7ad7225-b362-4cf4-b0a2-1f5555555555">INQ_COLOUR_MAPPING_FACILITIES</a> <a href="https://standards.iteh.ai/itah/standards/sist/c7ad7225-b362-4cf4-b0a2-1f5555555555">INQ_COLOUR_MAPPING_METHOD_FACILITIES-amd-1-1994</a> <a href="#">INQ_COLOUR_MAPPING_REPRESENTATION</a> <a href="#">INQ_COLOUR_MAPPING_STATE</a> <a href="#">INQ_CURVE_AND_SURFACE_FACILITIES</a> <a href="#">INQ_DATA_MAPPING_FACILITIES</a> <a href="#">INQ_DATA_MAPPING_REPRESENTATION</a> <a href="#">INQ_DEPTH_CUE_FACILITIES</a> <a href="#">INQ_DEPTH_CUE_REPRESENTATION</a> <a href="#">INQ_DIRECT_COLOUR_MODEL_FACILITIES</a> <a href="#">INQ_DYNAMICS_OF_WS_ATTRIBUTES(PLUS)</a> <a href="#">INQ_EDGE_REPRESENTATION(PLUS)</a> <a href="#">INQ_INTERIOR_FACILITIES(PLUS)</a> <a href="#">INQ_INTERIOR_REPRESENTATION(PLUS)</a> <a href="#">INQ_LIGHT_SOURCE_FACILITIES</a> <a href="#">INQ_LIGHT_SOURCE_REPRESENTATION</a> <a href="#">INQ_LIST_OF_COLOUR_MAPPING_INDICES</a> <a href="#">INQ_LIST_OF_DATA_MAPPING_INDICES</a> <a href="#">INQ_LIST_OF_DEPTH_CUE_INDICES</a> <a href="#">INQ_LIST_OF_LIGHT_SOURCE_INDICES</a> <a href="#">INQ_LIST_OF_PARAMETRIC_SURFACE_INDICES</a> <a href="#">INQ_LIST_OF_REFLECTANCE_INDICES</a> <a href="#">INQ_PARAMETRIC_SURFACE_REPRESENTATION</a> <a href="#">INQ_PATTERN_REPRESENTATION(PLUS)</a> <a href="#">INQ_POLYLINE_FACILITIES(PLUS)</a> <a href="#">INQ_POLYLINE_REPRESENTATION(PLUS)</a> <a href="#">INQ_POLYMARKER_REPRESENTATION(PLUS)</a> <a href="#">INQ_PREDEFINED_COLOUR_MAPPING_REPRESENTATION</a> <a href="#">INQ_PREDEFINED_DATA_MAPPING_REPRESENTATION</a> <a href="#">INQ_PREDEFINED_DEPTH_CUE_REPRESENTATION</a> <a href="#">INQ_PREDEFINED_EDGE_REPRESENTATION(PLUS)</a> <a href="#">INQ_PREDEFINED_INTERIOR_REPRESENTATION(PLUS)</a> <a href="#">INQ_PREDEFINED_LIGHT_SOURCE_REPRESENTATION</a> <a href="#">INQ_PREDEFINED_PARAMETRIC_SURFACE_REPRESENTATION</a>
-----	--

INQ\_PREDEFINED\_PATTERN\_REPRESENTATION (PLUS)  
 INQ\_PREDEFINED\_POLYLINE REPRESENTATION (PLUS)  
 INQ\_PREDEFINED\_POLYMARKER REPRESENTATION (PLUS)  
 INQ\_PREDEFINED\_REFLECTANCE REPRESENTATION  
 INQ\_PREDEFINED\_TEXT REPRESENTATION (PLUS)  
 INQ\_REFLECTANCE\_FACILITIES  
 INQ\_REFLECTANCE\_REPRESENTATION  
 INQ\_RENDERING\_COLOUR\_MODEL FACILITIES  
 INQ\_TEXT REPRESENTATION (PLUS)  
 INQ\_WS\_STATE\_TABLE\_LENGTHS (PLUS)

*page 10:* The following should be added to the list of procedures using the abbreviation WS:

WS                   INQ\_DYNAMICS\_OF\_WS\_ATTRIBUTES (PLUS)  
                       INQ\_WS\_STATE\_TABLE\_LENGTHS (PLUS)

#### 4.1.2 Alphabetical by bound name

*pages 11 to 15:* The following list of functions should be added alphabetically to the alphabetical list of bound names:

CELL\_ARRAY  
 FILL\_AREA\_SET  
 FILL\_AREA\_SET  
 INQ\_COLOUR\_MAPPING\_FACILITIES  
 INQ\_COLOUR\_MAPPING\_METHOD\_FACILITIES  
 INQ\_COLOUR\_MAPPING\_REPRESENTATION  
 INQ\_COLOUR\_MAPPING\_STATE  
 INQ\_CURVE\_AND\_SURFACE\_FACILITIES  
 INQ\_DATA\_MAPPING\_FACILITIES  
 INQ\_DATA\_MAPPING\_REPRESENTATION  
 INQ\_DEPTH\_CUE\_FACILITIES  
 INQ\_DEPTH\_CUE\_REPRESENTATION  
 INQ\_DIRECT\_COLOUR\_MODEL\_FACILITIES  
 INQ\_DYNAMICS\_OF\_WS\_ATTRIBUTES  
 INQ\_EDGE\_REPRESENTATION  
 INQ\_INTERIOR\_FACILITIES  
 INQ\_INTERIOR\_REPRESENTATION  
 INQ\_LIGHT\_SOURCE\_FACILITIES  
 INQ\_LIGHT\_SOURCE\_REPRESENTATION  
 INQ\_LIST\_OF\_COLOUR\_MAPPING\_INDICES  
 INQ\_LIST\_OF\_DATA\_MAPPING\_INDICES  
 INQ\_LIST\_OF\_DEPTH\_CUE\_INDICES  
 INQ\_LIST\_OF\_LIGHT\_SOURCE\_INDICES  
 INQ\_LIST\_OF\_PARAMETRIC\_SURFACE\_INDICES  
 INQ\_LIST\_OF\_REFLECTANCE\_INDICES  
 INQ\_PARAMETRIC\_SURFACE\_REPRESENTATION  
 INQ\_PATTERN\_REPRESENTATION  
 INQ\_POLYLINE\_FACILITIES  
 INQ\_POLYLINE\_REPRESENTATION  
 INQ\_POLYMARKER\_REPRESENTATION  
 INQ\_PREDEFINED\_COLOUR\_MAPPING\_REPRESENTATION  
 INQ\_PREDEFINED\_DATA\_MAPPING\_REPRESENTATION  
 INQ\_PREDEFINED\_DEPTH\_CUE\_REPRESENTATION  
 INQ\_PREDEFINED\_EDGE\_REPRESENTATION  
 INQ\_PREDEFINED\_INTERIOR\_REPRESENTATION  
 INQ\_PREDEFINED\_LIGHT\_SOURCE\_REPRESENTATION  
 INQ\_PREDEFINED\_PARAMETRIC\_SURFACE\_REPRESENTATION  
 INQ\_PREDEFINED\_PATTERN\_REPRESENTATION  
 INQ\_PREDEFINED\_POLYLINE\_REPRESENTATION  
 INQ\_PREDEFINED\_POLYMARKER\_REPRESENTATION  
 INQ\_PREDEFINED\_REFLECTANCE\_REPRESENTATION

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[ISO/IEC 9593-1990/Amd. 1:1994](https://standards.iteh.ai/catalog/standards/isoiec/9593-1990/1994)

[3c72f00421d/iso-iec-9593-1990](https://standards.iteh.ai/catalog/standards/isoiec/9593-1990/1994/3c72f00421d/iso-iec-9593-1990)

INQ_PREDEFINED_TEXT REPRESENTATION	inquire predefined text representation plus
INQ_REFLECTANCE FACILITIES	inquire reflectance facilities
INQ_REFLECTANCE REPRESENTATION	inquire reflectance representation
INQ_RENDERING_COLOUR_MODEL FACILITIES	inquire rendering colour model facilities
INQ_TEXT REPRESENTATION	inquire text representation plus
INQ_WS STATE TABLE LENGTHS	inquire workstation state table lengths plus
NON_UNIFORM_B SPLINE CURVE	non-uniform B-spline curve
NON_UNIFORM_B SPLINE CURVE	non-uniform B-spline curve with colour
NON_UNIFORM_B SPLINE SURFACE	non-uniform B-spline surface
NON_UNIFORM_B SPLINE SURFACE	non_uniform B-spline surface with data
POLYLINE SET	polyline set 3 with colour
QUADRILATERAL_MESH	quadrilateral mesh 3 with data
QUADRILATERAL_MESH	quadrilateral mesh with data
SET_BACK_DATA_MAPPING_INDEX	set back data mapping index
SET_BACK_DATA_MAPPING_METHOD	set back data mapping method
SET_BACK_INTERIOR_COLOUR	set back interior colour
SET_BACK_INTERIOR_INDEX	set back interior index
SET_BACK_INTERIOR_SHADING_METHOD	set back interior shading method
SET_BACK_INTERIOR_STYLE	set back interior style
SET_BACK_INTERIOR_STYLE_INDEX	set back interior style index
SET_BACK_REFLECTANCE_INDEX	set back reflectance index
SET_BACK_REFLECTANCE_MODEL	set back reflectance model
SET_BACK_REFLECTANCE_PROPERTIES	set back reflectance properties
SET_COLOUR_MAPPING_INDEX	set colour mapping index
SET_COLOUR_MAPPING_REPRESENTATION	set colour mapping representation
SET_CURVE_APPROXIMATION_CRITERIA	set curve approximation criteria
SET_DATA_MAPPING_INDEX	set data mapping index
SET_DATA_MAPPING_METHOD	set data mapping method
SET_DATA_MAPPING_REPRESENTATION	set data mapping representation
SET_DEPTH_CUE_INDEX	set depth cue index
SET_DEPTH_CUE_REPRESENTATION	set depth cue representation
SET_EDGE_COLOUR	set edge colour
SET_EDGE_REPRESENTATION	set edge representation plus
SET_FACET_CULLING_MODE	set facet culling mode
SET_FACET_DISTINGUISHING_MODE	set facet distinguishing mode
SET_INTERIOR_COLOUR	set interior colour
SET_INTERIOR_REPRESENTATION	set interior representation plus
SET_INTERIOR_SHADING_METHOD	set interior shading method
SET_LIGHT_SOURCE_REPRESENTATION	set light source representation
SET_LIGHT_SOURCE_STATE	set light source state
SET_OF_FILL_AREA_SETS	set of fill area sets 3 with data
SET_OF_FILL_AREA_SETS	set of fill area sets with data
SET_PARAMETRIC_SURFACE_CHARACTERISTICS	set parametric surface characteristics
SET_PARAMETRIC_SURFACE_INDEX	set parametric surface index
SET_PARAMETRIC_SURFACE_REPRESENTATION	set parametric surface representation
SET_PATTERN_REPRESENTATION	set pattern representation plus
SET_POLYLINE_COLOUR	set polyline colour
SET_POLYLINE_REPRESENTATION	set polyline representation plus
SET_POLYLINE_SHADING_METHOD	set polyline shading method
SET_POLYMARKER_COLOUR	set polymarker colour
SET_POLYMARKER_REPRESENTATION	set polymarker representation plus
SET_REFLECTANCE_INDEX	set reflectance index
SET_REFLECTANCE_MODEL	set reflectance model
SET_REFLECTANCE_PROPERTIES	set reflectance properties
SET_REFLECTANCE_REPRESENTATION	set reflectance representation
SET_RENDERING_COLOUR_MODEL	set rendering colour model
SET_SURFACE_APPROXIMATION_CRITERIA	set surface approximation criteria
SET_TEXT_COLOUR	set text colour
SET_TEXT_REPRESENTATION	set text representation plus
TRIANGLE_SET	triangle set 3 with data
TRIANGLE_SET	triangle set with data
TRIANGLE_STRIP	triangle strip 3 with data
TRIANGLE_STRIP	triangle strip with data

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#### 4.1.3 Alphabetical PHIGS functions

*page 15:* No changes.

### 4.2 Data type definitions

*page 15:* No changes.

#### 4.2.1 Abbreviations used in the data type definitions

*page 16:* No changes.

#### 4.2.2 Alphabetical list of type definitions **iTeh STANDARD PREVIEW (standards.iteh.ai)**

*pages 16 to 66:* No changes.

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#### 4.2.3 Alphabetical list of private type definitions

*pages 66 to 68:* No changes.

#### 4.2.4 List of constant declarations

*pages 68 to 69:* No changes.

#### 4.2.5 PHIGS configuration values

*pages 69 to 71:* No changes.

## 4.3 Error Codes

*page 72:* No changes.

### 4.3.1 Precluded Error Codes

*page 72:* No changes.

*page 72:* The following text should be added after clause 4.3.1 as clause 4.3.2 of ISO/IEC 9593-3.

### 4.3.2 Binding Specific Error Codes

The following binding specific error has been defined for use with this binding:

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*2502 Ignoring function, the parameters have inconsistent dimensions.*

[ISO/IEC 9593-3:1990/Amd 1:1994](#)

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