



**SLOVENSKI STANDARD  
SIST EN 29592-3:1997**

**01-december-1997**

**Information processing systems - Computer graphics - Programmer's Hierarchical Interactive Graphics System (PHIGS) - Part 3: Clear-text encoding of archive file (ISO/IEC 9592-3:1989)**

Information processing systems - Computer graphics - Programmer's Hierarchical Interactive Graphics System (PHIGS) - Part 3: Clear-text encoding of archive file (ISO/IEC 9592-3:1989, ed. 1)

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Graphische Systeme der Informationsverarbeitung - Hierarchisches Interaktives Graphisches System für Programmierer - Teil 3: Kodierung der Archiv-Datei mit Text (ISO/IEC 9592-3:1989, Ausg. 1)

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Systemes de traitement de l'information - Infographie - Interface de programmation du systeme graphique hiérarchisé (PHIGS) - Partie 3: Codage mode texte en clair du fichier d'archive (ISO/IEC 9592-3:1989, éd. 1)

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**ICS:**

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EUROPEAN STANDARD  
NORME EUROPEENNE  
EUROPAISCHE NORM

REPUBLIKA SLOVENIJA  
MINISTRSTVO ZA ZNANOST IN TEHNOLOGIJO  
Urad RS za standardizacijo in meroslovje  
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### English version

Information processing systems -- Computer graphics -- Programmer's Hierarchical Interactive Graphics Systems (PHIGS) -- Part 3: Clear-text encoding of archive file (ISO/IEC 9592-3: 1989 - edition 1)

Systèmes de traitement de l'information -- Infographie -- Interface de programmation du système graphique hiérarchisé (PHIGS) -- Partie 3: Codage mode texte en clair du fichier d'archive (ISO/IEC 9592-3: 1989 - édition 1)	Graphische Systeme der Informationsverarbeitung -- Hierarchisches Interaktives Graphisches Systems für Programmierer -- Teil 3: Codierung der Archiv-Datei mit Text (ISO/IEC 9592-3: 1989 - Ausgabe 1)
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European Committee for Standardization  
Comité Européen de Normalisation  
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#### FOREWORD

The Technical Board has decided to submit the International Standard  
Information processing systems -- Computer graphics -- Programmer's  
Hierarchical Interactive Graphics System (PHIGS) -- Part 3: Clear  
text encoding of archive file

to Formal Vote and the result was positive.

For the time being, this document exists only in the English and  
French versions.

According to the CEN/CENELEC Common Rules, the following countries  
are bound to implement this standard:

Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland,  
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**ENDORSEMENT NOTICE**

The text of the International Standard ISO/IEC 9592-3, edition 1,  
1989, was approved by CEN as a European Standard without any  
modification.



INTERNATIONAL  
STANDARD

**ISO/IEC**  
**9592-3**

First edition  
1989-04-01

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

**Part 3 :**

Clear-text encoding of archive file

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*Systèmes de traitement de l'information — Infographie — Interface de  
programmation du système graphique hiérarchisé (PHIGS) —  
Partie 3 : Codage mode texte en clair du fichier d'archive*



Reference number  
ISO/IEC 9592-3 : 1989 (E)

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## Foreword

ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission) together form a system for worldwide standardization as a whole. 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. Draft International Standards adopted by the joint technical committee are circulated to national bodies for approval before their acceptance as International Standards. They are approved in accordance with procedures requiring at least 75 % approval by the national bodies voting.

International Standard ISO/IEC 9592-3 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*.

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Users should note that all International Standards undergo revision from time to time and that any reference made herein to any other International Standard implies its latest edition, unless otherwise stated.

ISO/IEC 9592 consists of the following parts, under the general title *Information processing systems — Computer graphics — Programmer's Hierarchical Interactive Graphics System (PHIGS)*:  
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- Part 1: *Functional description*
- Part 2: *Archive file format*
- Part 3: *Clear-text encoding of archive file*

Annex A is for information only.



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

## Part 3 : Clear-text encoding of archive file

### 0 Introduction

#### 0.1 Purpose of PHIGS archive file clear-text encoding

The Clear-Text Encoding of the PHIGS archive file provides a representation of the archive file syntax that is easy to type, edit, and read. It allows an archive file to be edited with any standard text editor, using the internal character code of the host computer system.

#### 0.2 Primary objectives

- a) HUMAN EDITABLE: The clear-text encoding should be able to be hand-edited or, if desired, hand-constructed.
- b) HUMAN-FRIENDLY: The clear-text encoding should be easy and natural for people to read and edit. Although what is easiest and most natural is a subjective judgement that varies among users, contributing factors such as ease of recognition, ease of remembering, avoidance of ambiguity, and prevention of mistyping have all been considered.
- c) MACHINE-READABLE: The clear-text encoding should be able to be parsed by software.
- d) USABLE IN A WIDE VARIETY OF EDITORS: The clear-text encoding should not have any features that make it difficult to edit in normal text editors.
- e) INTERCHANGEABLE BETWEEN DIVERSE SYSTEMS: The clear-text encoding should be encoded in such a way as to maximize the set of systems which can utilize it. No assumptions should be made as to word size or arithmetic modes used to interpret the archive file.
- f) USES STANDARDIZED ABBREVIATIONS: Where language encoding of other graphics standards have established standard abbreviations, or where common practice in the data processing and graphics industries has established well-known abbreviations, these abbreviations are used. In accordance with the principle of "least astonishment", this approach should minimize the time needed to learn to use this encoding.



**ISO/IEC 9592-3 : 1989 (E)****Relationship to other standards****Introduction****0.3 Relationship to other standards**

This part of ISO/IEC 9592 draws extensively for its model of an archive file format on ISO 8632. The set of characters required to implement the Clear-Text Encoding is a subset of those included in national versions of ISO 646. Any character set that can be mapped to and from that subset may be used to implement the encoding.

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## 1 Scope and field of application

This part of ISO/IEC 9592 specifies a Clear-Text Encoding of the PHIGS archive file. For each of the archive file elements specified in ISO/IEC 9592-2, a clear text encoding is specified. This part of ISO/IEC 9592 specifies the overall format of the archive file and the means by which comments may be interspersed in the archive file.

This encoding of the PHIGS archive file allows archive files to be created and maintained in a form which is simple to type, easy to edit and convenient to read.

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## 2 References

ISO 646, *Information processing - ISO 7-bit coded character set for information interchange.*

ISO 2022, *Information processing - ISO 7-bit and 8-bit coded character sets - Code extension techniques.*

ISO 6093, *Information processing - Representation of numeric values in character strings for information interchange.*

ISO 8632, *Information processing systems - Computer graphics - Metafile for the storage and transfer of picture description information*

- *Part 1 : Functional description*
- *Part 2 : Character encoding*
- *Part 3 : Binary encoding*
- *Part 4 : Clear text encoding*

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### 3 Definitions

For the purpose of this part of ISO/IEC 9592 the following definitions apply.

**3.1 archive file descriptor:** A group of elements that describe the functional capabilities required to process the archive file.

**3.2 archive file generation:** The process that produces a PHIGS archive file.

**3.3 archive file retrieval:** The process that reads a PHIGS archive file, retrieves the contents, and transfers the result to the PHIGS centralized structure store.

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