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Information technology — Computer graphics — Interfacing techniques for dialogues with graphical devices (CGI) — Functional specification —

Part 6: Raster

*Technologies de l'information — Infographie — Interfaces pour
l'infographie — Spécifications fonctionnelles —*

Partie 6: Raster



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Contents

	Page
Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	2
3 Raster concepts	3
3.1 Introduction	3
3.2 Architectural concepts	3
3.2.1 Bitmaps	3
3.2.2 Displayable bitmaps	3
3.2.3 Non-displayable bitmaps	4
3.2.4 Bitmap identifiers	5
3.3 Control of bitmap manipulations	5
3.3.1 The drawing bitmap	5
3.3.2 Two-operand bitblts	5
3.3.3 Tile three-operand bitblt	6
3.3.4 Bitmaps regions used as patterns	6
3.3.5 Drawing modes	6
3.3.6 Transparency	7
3.3.7 Raster operation functions with mapped bitmaps	7
3.3.8 Rendering in full-depth bitmaps	7
3.3.9 Rendering in mapped bitmaps	7
3.4 Pixel array	7
3.5 The VDC-to-Device Mapping and clipping	8
3.5.1 Determining the position and size of created bitmaps	8
3.5.2 Clipping	9
3.6 Inquiry	10
4 Interactions with other parts of ISO/IEC 9636	11
4.1 Interactions with ISO/IEC 9636-2 (Control)	11
4.2 Interactions with ISO/IEC 9636-3 (Output)	11
4.3 Interactions with ISO/IEC 9636-4 (Segments)	11
4.4 Interactions with ISO/IEC 9636-5 (Input)	11
5 Abstract specification of functions	12
5.1 Introduction	12
5.1.1 Data types employed	12
5.1.2 Validity of returned information	12
5.2 Raster control functions	12
5.2.1 GET NEW BITMAP IDENTIFIER	12
5.2.2 CREATE BITMAP	12
5.2.3 DELETE BITMAP	14
5.2.4 DRAWING BITMAP	14
5.2.5 DISPLAY BITMAP	15
5.2.6 MAPPED BITMAP FOREGROUND COLOUR	15
5.2.7 MAPPED BITMAP BACKGROUND COLOUR	15
5.2.8 TRANSPARENT COLOUR	15
5.3 Raster attribute functions	16
5.3.1 DRAWING MODE	16
5.3.2 FILL BITMAP	17
5.4 Raster operation functions	18
5.4.1 PIXEL ARRAY	18

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	5.4.2	GET PIXEL ARRAY	19
	5.4.3	GET PIXEL ARRAY DIMENSIONS	20
	5.4.4	SOURCE DESTINATION BITBLT	20
	5.4.5	TILE THREE OPERAND BITBLT	21
6		Raster inquiry functions	25
	6.1	Introduction	25
	6.1.1	Data types employed	25
	6.1.2	Validity of returned information	25
	6.2	Raster description table	25
	6.2.1	INQUIRE RASTER CAPABILITY	25
	6.2.2	INQUIRE LIST OF SUPPORTED DRAWING-MODE/TRANSPARENCY PAIRS	26
	6.2.3	INQUIRE LIST OF SUPPORTED DRAWING-MODE-3/TRANSPARENCY PAIRS	26
	6.3	Raster state list	26
	6.3.1	INQUIRE RASTER STATE	26
	6.3.2	INQUIRE LIST OF NON-DISPLAYABLE BITMAP IDENTIFIERS	26
	6.3.3	INQUIRE LIST OF DISPLAYABLE BITMAP IDENTIFIERS	27
	6.4	Bitmap state list	27
	6.4.1	INQUIRE BITMAP STATE	27
7		Raster description tables and state lists	28
	7.1	Raster description table	28
	7.2	State lists	29
	7.2.1	Raster state list	29
	7.2.2	Bitmap state list	29
A		Formal grammar of the functional specification	31
B		Raster errors	38
C		Guidelines for CGI implementors	39
D		List of BOOLEANOP class drawing-mode-3 values	41
E		Some raster operation examples	45
F		Algorithmic explanation of raster operations	47

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, 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 voting. Publication as an International Standard requires approval by at least 75 % of the national bodies casting a vote.

International Standard ISO/IEC 9636-6 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*.

ISO/IEC 9636 consists of the following parts, under the general title *Information technology — Computer graphics — Interfacing techniques for dialogues with graphical devices (CGI) — Functional specification*:

- *Part 1: Overview, profiles, and conformance*
- *Part 2: Control*
- *Part 3: Output*
- *Part 4: Segments*
- *Part 5: Input and echoing*
- *Part 6: Raster*

Annexes A and B form an integral part of this part of ISO/IEC 9636. Annexes C, D, E, and F are for information only.

Introduction

This part of ISO/IEC 9636 describes the functions of the Computer Graphics Interface concerned with raster graphic specific devices.

The functional capability incorporated in this part of ISO/IEC 9636 is concerned with creating, manipulating, displaying and retrieving information stored as pixel data below the CGI in a device independent, yet efficient manner.

The functionality described in this part of ISO/IEC 9636 pertains to Virtual Devices of class OUTPUT and OUTIN with display type RASTER.

Information technology – Computer graphics – Interfacing techniques for dialogues with graphical devices (CGI) – Functional specification –

Part 6: Raster

1 Scope

This part of ISO/IEC 9636 describes those functions of the Computer Graphics Interface concerned with creating, modifying, retrieving, and displaying portions of an image stored as pixel data. It includes functionality for combining such images.

This part of ISO/IEC 9636 is part 6 of ISO/IEC 9636 and should be read in conjunction with ISO/IEC 9636-1, ISO/IEC 9636-2, and ISO/IEC 9636-3. The relationship of this part of ISO/IEC 9636 to the other parts of ISO/IEC 9636 is described in ISO/IEC 9636-1 (see ISO/IEC 9636-1, 5.2.1 and figures 6 and 7) and in clause 4.

The functionality described in this part of ISO/IEC 9636 pertains to Virtual Devices of class OUTPUT and OUTIN with display type RASTER.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this part of ISO/IEC 9636. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this part of ISO/IEC 9636 are encouraged to investigate the possibility of applying the most recent editions of the standards listed below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO/IEC 9636-1 : 1991 *Information technology — Computer graphics — Interfacing techniques for dialogues with graphical devices (CGI) — Functional specification — Part 1: Overview, profiles, and conformance.*

ISO/IEC 9636-2 : 1991 *Information technology — Computer graphics — Interfacing techniques for dialogues with graphical devices (CGI) — Functional specification — Part 2: Control.*

ISO/IEC 9636-3 : 1991 *Information technology — Computer graphics — Interfacing techniques for dialogues with graphical devices (CGI) — Functional specification — Part 3: Output.*

ISO/IEC 9636-4 : 1991 *Information technology — Computer graphics — Interfacing techniques for dialogues with graphical devices (CGI) — Functional specification — Part 4: Segments.*

ISO/IEC 9636-5 : 1991 *Information technology — Computer graphics — Interfacing techniques for dialogues with graphical devices (CGI) — Functional specification — Part 5: Input and echoing.*

ISO/IEC 9637-1 : -¹⁾ *Information technology — Computer graphics — Interfacing techniques for dialogues with graphical devices (CGI) — Data stream binding — Part 1: Character encoding.*

ISO/IEC 9637-2 : -¹⁾ *Information technology — Computer graphics — Interfacing techniques for dialogues with graphical devices (CGI) — Data stream binding — Part 2: Binary encoding.*

ISO/IEC TR 9973 : 1988 *Information processing — Procedures for registration of graphical items.*

¹⁾ To be published.