

ICS 35.040
CCS L 71



**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB 16793.1-2010

Replacing GB 16793-1997

**Information technology -- Universal multiple-octet coded
character set (CJK unified ideographs). 24-dot matrix font --
Part 1: Song Ti**

信息技术 通用多八位编码字符集 (CJK统一汉字) 24点阵字型 第1部分: 宋体
(English Translation)

Issued on: January 10, 2011

Implemented on: November 1, 2011

Issued by: Standardization Administration of China

Table of Contents

Introduction
Introduction
1 Scope
2 Normative references
3 Terms and definitions
4 Bitmap fonts Ranking
5 Is a data management standard

Foreword

All technical content in this Part of GB 16793 is mandatory.

GB 16793 "Information technology - Universal Multiple-Octet Coded Character Set (CJK Unified Character) - 24 dot matrix" is divided into two parts as follows.

--- Part 1. Times New Roman;

--- Part 2. bold.

This is Part 1 GB 16793's.

The provisions of section 24 dot matrix Chinese character fonts on a "first VARIANT," and "Simplified summary table", "Chinese Characters General Printing

Table "and" Modern Chinese generic word table "(see reference) as the basis, designed in accordance with current Chinese Characters consolidation principles.

This Part replaces GB 16793-1997 "Information technology - Universal Multiple-Octet Coded Character Set (I district) - 24 dot matrix characters." this section based on the Chinese character GB 13000 characters in CJK Unified provided by the Chinese information systems design 24 bitmap font type. To further enhance the quality of fonts and font standards to ensure harmonization between, on the GB 16793-1997 incorrect characters Font modified.

This section of the Appendices A and B are normative appendix.

This part is proposed by the Ministry of Industry and Information Technology of the People's Republic of China.

This part of the National Information Technology Standardization Technical Committee (SAC/TC28) centralized.

Introduction

Authorization to use the relevant font data transfer matters, to maintain the standard font data, updating and revision of unity is responsible for the centralized units.

Address. Andingmen East Street, Dongcheng District No. 1 (Beijing 1101 mailbox) Zip Code. 100007 Tel. 6,400,768,984,029,173 Fax. 64007681 E-mail. daihong@cesi.ac.cn
Information technology - Universal Multiple-Octet Coded Character Set (CJK Unified Character) - 24 dot matrix Part 1. Arial

1 Scope

GB 16793 provisions of this part of the GB CJK Unified Chinese characters 13000-201024 dot matrix font Times New Roman.

This section applies to a variety of electronic information products, all kinds of digital products, can also be used for other related equipment.

2 Normative references

The following documents contain provisions which, through reference in this section GB 16793, constitute provisions of this part. For dated reference documents Member, all subsequent amendments (not including errata content) or revisions do not apply to this section, however, encouraged to reach under this section Parties to research agreement to use the latest versions of these documents. For undated reference documents, the latest versions apply to this section.

GB 13000-2010 Information technology - Universal Multiple-Octet Coded Character Set (UCS) (ISO/IEC 10646:2003, IDT)

3 Terms and Definitions

The following terms and definitions apply to this part of GB 16793.

Font glyph

One kind of recognizable abstract graphic symbol, it does not depend on any particular design.

Font font

Glyph image set having the same basic design, such as. Times New Roman.

Bitmap fonts dotmatrixfont in a collection of dots to show the graphic character type (shape).

Word order characterorder Graphic character in the set are arranged according to certain

rules of order.

4 Priorities, bitmap fonts

This part of the character dot-matrix font word order according to GB 13000-2010 in CJK Unified Chinese characters word order arrangement.

5 Standard data management

To strengthen the management of electronic information technology products with Chinese characters standard font data, to ensure the correctness of the implementation of this part of the data and a Consistency to authorize the use of font data transfer matters, to maintain the standard font data, updating and revision, unified by the NFP be responsible for.

The method represents bitmap fonts

6.1 Grid

Equidistant grid by a number of vertical and horizontal lines intersect to form.

The provisions of section 24 bitmap fonts, which transverse grid 24 grid, 24 longitudinal grid. The center of each square is set at the center position of the point.

Raster bitmap fonts only constitute points for positioning. 24 dot grid shown in Figure 1.

1 24 dot raster

6.2 Points

Point is the smallest unit constituting the lattice-shaped, circular indicated that it is located within the black areas of the parties to the grid.

6.3 Lattice words

Word character dot-matrix font by the number of points placed within the grid set to represent. Chinese character "Yong" word lattice 24 in FIG. 2 FIG.

2 Chinese character "Yong" word lattice 24 of FIG.

7 Character dot-matrix font

Word Count 7.1

This section based on GB 13000-2010 in CJK Unified Character design 20,902 characters to 24 dot matrix font Times New Roman.

7.2 Character font data

24 dot matrix Chinese character font data representation, see Appendix A.

7.3 Character reduce stroke treatment

In this section, there is a reduction of 8 characters were processed strokes, see Appendix B.

7.4 Character dot-matrix font table

This section provides 20,902 24 dot matrix font Times New Roman as follows.

twenty one

twenty two

twenty three

twenty four

Appendix A

(Normative)

24 Dot matrix Chinese character font data

A.1 characters represent 24 dot font data this section, the Chinese character font data can be represented by a dot. Each dot font data is 24 x 24 (dots x transverse column point Number), a total of 576 bits, 72 bytes.

Recording format A.2 Character 24 dot font data 72 24 dot matrix font data byte characters are arranged in the order of 0 byte to 71-byte end, they are expressed in hexadecimal, per Line 3 bytes, its record format is as follows.

Rows

Number of columns

0 1,234,567,891,011,121,314 15 1,617,181,920,212,223 00 byte 1 byte 2 bytes twenty two
2369 bytes 70 bytes 71 bytes A.3 24 characters dot matrix font data, for example Long
957F rule 6CBB long 4E45 Ann 5B89 02 00 00 00 0,200,008,000,006,000 03 80 00 18 03
80 00 E0 00 00 30 00 03 00 80 0C 03 00 00 C0 00 00 18 00 03 00 E0 06 06 00 01 80 00
10 10 18 03 03 80 04 86 00 01 83 00 1F FF FC 03 07 00 00 8C 40 03 FF 80 30 40 18 03
0C 00 00 88 20 03 07 00 30 70 20 03 18 00 61 1,018,060,600,606,000 03 20 00 31 20 0C
06 0C 00 00 60 00 03 40 00 19 FF FE 0C 0C 00 00 C0 00 03 00 0C 12 70 06 18 0E 00 00
C0 0C FF FF FE 02 00 04 10 1A 00 7F FF FE 03 08 00 02 20 30 20 1A 00 01 81 80 03 08
00 04 3F F8 00 33 00 01 81 80 03 04 00 04 3,030,003,100,030,300 03 04 00 0C 30 30 00