

ICS 35.040
CCS L 71



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

GB 14245.4-2008

Replacing GB/T 14244-1993

**Information technology -- Chinese ideogram coded character
set (basic set). 64 dot matrix font -- Part 4: Fangsong Ti**

信息技术 汉字编码字符集（基本集） 64点阵字型 第4部分：仿宋体

(English Translation)

Issued on: August 6, 2008

Implemented on: July 1, 2009

Issued by: Standardization Administration of China

Table of Contents

Introduction
Introduction
1 Scope
2 Normative references
3 Terms and definitions
4 Character graphics Character
2 5 standard data management

Foreword

In addition to all the technical word table in Zone 1 to Area 11, the contents of this section GB 14245 is mandatory.

GB 14245 "Information technology - Chinese ideogram coded character set (basic set) - 64 dot matrix font" is divided into four parts.

- Part 1. Times New Roman;
- Part 2. blackbody;
- Part 3. italics;
- Part 4. italics.

This section GB of Section 414 245.

The provisions of section 64 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/T 14244-1993 "Information exchange with the Chinese characters 64 x 64 dot matrix italics font set and data set." Section compared with the GB/T 14244-1993, the main change this as follows.

- a) In order to further improve the quality of fonts and ensure harmonization between the standards, this part of the increase in the provisions of the GB 2312-1980 Part of the character;
- b) on the last version is not the right character fonts have been corrected.

This section of the Appendix A, Appendix B is a normative appendix.

This section proposed by the People's Republic of China Ministry of Information Industry.

This part of the jurisdiction of the China Electronics Standardization Institute.

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. Dongcheng District Andingmen East Street on the 1st (Beijing 1101 mailbox) Zip Code. 100007 Tel. 6,400,768,984,029,173 Fax. 64007681 E-mail. daihong @ cesi. ac. cn
Information technology - Chinese ideogram coded character set (basic set) 64 dot matrix font - Part 4. italics

1 Scope

GB 14245 of the provisions of this part of the graphic GB 2312-1980 "basic set of information exchange with Chinese character coded character set" characters 64 dot matrix italics font.

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 Part of GB 14245, 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 2312-1980 exchange of information with Chinese characters coded character set basic set

3 Terms and Definitions

The following terms and definitions apply to this part of GB 14245.

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

Glyph image set having the same basic design, such as. italics.

In a collection of dots to show the graphic character type (shape).

Graphic character in the set are arranged according to certain rules of order.

4 Character graphics character

According to the provisions of GB 2312-1980, it provided appropriate.

Zone 1 to 9 area of foreign letters and other graphic characters 682;

District 16 to 55 region of the first stage characters 3755;

District 56 to 87 region of the second stage 3008 characters.

Also in the District 8 27-32 supplemented with 6 characters; 10 District 01-94 supplemented with 94-byte graphic characters; 11 District 01 Bit to 32-bit pinyin supplemented with 32 half-width characters, see Appendix A.

This section provides a total graphic character 7577.

5 Standard data management

To strengthen the management of electronic information technology products use standard Chinese character font data, to ensure the correctness of the data in the implementation of this section and 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 64 bitmap fonts, which is a lateral grid 64 grid, 64 longitudinal grid. The center of each square as the center point position.

Raster Only constituting the lattice points are positioned 64 lattice grid shown in Figure 1.

Figure 164 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 64 of FIG. 2 FIG.

Figure 264 dot matrix Chinese word "never" in

6.4 Font data

64 dot matrix font data representation, see Appendix B.

Table 6.5 bitmap fonts

This section provides 64 dot matrix 7445 characters/graphic characters and supplementary provisions of GB 2312-1980 132 graphic characters Italics font.

This part of the bitmap fonts are listed below.

4GB 14245.4-2008

5GB 14245.4-2008

6GB 14245.4-2008

7GB 14245.4-2008

8GB 14245.4-2008

9GB 14245.4-2008

Appendix A

(Normative)

Supplementary characters this section is based on GB 2312-1980 "information exchange with Chinese character set encoding basic set" as the basis to develop. Depending on need to before GB 2312-1980 revised in this part of the character following additions.

132 supplementary characters are as follows.

10-01 to 10-94 supplementary 94-byte graphic characters, and their order of table 1 GB 2312-1980 "Graphic character code table" in Zone 3 correspondence, font width corresponding to Zone 3 words 1/2 of the width of the shape.

The half-width characters, the order of this Section 8 District 01-32 of 32 characters Correspondence, font width corresponding glyph widths 8th district 1/2.

Appendix B

(Normative)

64 Dot matrix font data

B. It represents 164 dot font data this section, the graphic character font data is represented by a dot. Each dot font data is 64 x 64 (dots x vertical transverse Column points), a total of 4096 bits, 512 bytes.

B. Recording format 264 dot matrix font data 64 dot matrix 512 bytes of font data and order