



IBM Simplified Chinese Graphic Character Set, GBK Code

DBCS-Host and DBCS-PC



Corporate Specification

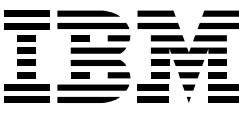
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C-H 3-3220-020

1997-02

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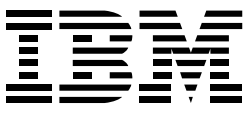


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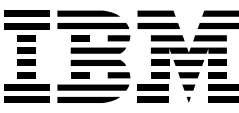
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Introduction

1. Scope

1.1 Abstract

This document is a registry of the IBM Simplified Chinese *Graphic Character Set*, GBK Code, DBCS-Host and DBCS-PC, in which the following are set forth:

- Repertoires of the IBM Simplified Chinese *Graphic Character Set*, GBK Code, DBCS-Host and DBCS-PC, are specified.
- Each *graphic character* of the repertoire is identified by a *Graphic Character Global Identifier (GCGID)*.
- *graphic character sets* are identified by *Graphic Character Set Global Identifiers (GCSGIDs)*.
- two *code pages*: *DBCS-Host* and *DBCS-PC* for the *graphic character sets* are specified and identified by *Code Page Global Identifiers (CPGIDs)*.
- Code translation correspondence between GBK Code, DBCS-PC and GBK Code, DBCS-Host is specified.
- Code translation correspondence between GBK Code, DBCS-PC or GBK Code, DBCS-Host and the following code pages are specified.
 - *DBCS-PC*
 - *DBCS-Host*
 - *DBCS-EUC*
 - GB 2312-80

1.2 Objective

The objectives of this document are:

- 1) To make available to all developers supporting CH-S the specification of the CH-S *graphic character sets* and *code pages* for GBK Code, DBCS-Host and DBCS-PC.
- 2) To ensure consistent implementation of CH-S *graphic character sets* and *code pages* for GBK Code, DBCS-Host and DBCS-PC.

Note: This document is one of a set of documents defined in C-S 3-3220-019, *Coded Character Sets, Implementation*. The reader should be

familiar with the requirements specified in C-S 3-3220-019 which describe the relationship of the documents. Note also that the requirements for compliance with this specification are described in C-S 3-3220-019.

Terms in italics (except in headings) are defined in the Supplementary Information section.

“Simplified Chinese” will be abbreviated to “CH-S” hereinafter.

X'nn' or X'nnnn' represents a hexadecimal notation.

“GBK DBCS-Host” will be synonymously used for “GBK Code, DBCS-Host”, and “GBK DBCS-PC” will be synonymously used for “GBK Code, DBCS-PC”.

1.3 Application

This specification is applicable to all IBM *products* which implement the GBK Code, DBCS-Host and DBCS-PC as specified in Section 1.1.

1.4 Effective Date

This document takes effect with its publication.

2. Document Administration

2.1 Originating Area and Responsibility

This document is maintained by the Standards Project Authority (SPA) for:

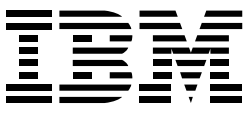
SIRS Code: 029 (Double-Byte Character Set)
Location Code: 93K (Yamato)
Division: NHD
SCRL Group: None
Page Count: 31

2.2 Authorization

Publication of this document was approved by the Standards Authorities of the affected operating units.

2.3 Compliance

Compliance with the requirements of this document is recommended unless it is called out as a requirement in a standard or equivalent document. It then assumes the same compliance requirements as that document.



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2.4 Property Statement

This document is the property of IBM. Its use outside IBM is authorized only for responding to a request for quotation or for the performance of work for IBM. All supplier/vendor questions must be referred to the IBM purchasing department.

3. Related Documents

3.1 Superseded Documents

C-H 3-3220-020 dated 1996-12

Note: Changes in this edition are indicated by the character “|” (vertical line) in the revision column.

3.2 Referenced External Documents

GB 2312-80

PRC National Standard, Code of Chinese Graphic Character Set for Information Interchange, Primary Set

GB 13000

PRC National Standard equivalent to ISO 10646, Information Technology - Universal Multiple-Octet Coded Character Set(UCS).

ISO 646

ISO Standard for 7-Bit Coded Character Set for Information Interchange

ISO 2022

ISO Standard for 7-bit and 8-bit Coded Character Sets - Code Extension Techniques

ISO 10646-1

ISO Information technology - Universal Multiple-Octet Coded Character Set (UCS), Part 1: Architecture and Basic Multilingual Plane

3.3 Referenced IBM Documents

C-S 3-3220-002

Extended BCD Interchange Code (EBCDIC)

C-S 3-3220-019

Coded Character Sets, Implementation

C-H 3-3220-050

Registry, Graphic Character Sets and Code Pages, Online Database

C-H 3-3220-055

Graphic Character Identification System, Graphic Character Global Identifier (GCGID) Structure

C-S 3-3220-102

Double-Byte Character Set (DBCS), Terminology and Code Scheme

C-S 3-3220-130

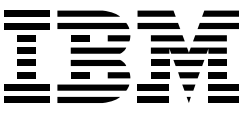
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C-S 3-3220-132

IBM Simplified Chinese Graphic Character Set for Extended UNIX Code (EUC)

3.4 Copyright Permission

Not applicable.



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Requirements

4. External Standards

4.1 PRC National Standard GB 2312-80

GB 2312-80, PRC National Standard, Code of Chinese Graphic Character Set for Information Interchange, Primary Set, published in March 1981, specifies a primary set of *graphic characters* with their binary-coded representation for Chinese information interchange. It applies to Chinese information interchange between the general information-processing systems, communication systems, and so on. It contains 682 non-Chinese characters and 6763 Chinese characters, 7445 *graphic characters* in total.

4.2 ISO 10646-1:1993

ISO 10646-1:1993 (“ISO 10646-1” hereinafter) specifies the Universal Multiple-Octet Coded Character Set(UCS). It is applicable to the representation, transmission, interchange, processing, storage, input and presentation of the written form of the language of the world as well as additional symbols. It contains 20902 CJK unified ideographs.

4.3 GB 13000

GB13000, PRC National Standard, published in December 1994 is equivalent to ISO 10646-1.

4.4 GBK Code

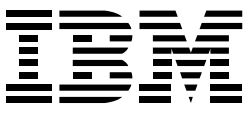
GBK, Chinese Internal Code Specification is the super set of GB and totally compatible with GB 2312-80 (PRC National Standard). GBK expands its character set to 20902 characters in all of ISO 10646-1 CJK unified ideographs and contains additional *DBCS* symbols defined in Big-5 code (a de-facto industry standard for traditional Chinese used in PC of Taiwan, R.O.C.). It applies to Chinese information processing, interchange, storage, transmission, display, input and output.

4.4.1 Character Coverage. GBK contains 20975 Chinese characters, 911 non-Chinese characters, and 1894 user definable characters as shown in Table 1.

Table 1. GBK Character Coverage	
Content	Number of Characters
Non-Chinese Character Set <ul style="list-style-type: none"> • GB 2312-80 set (682) <ul style="list-style-type: none"> – Latin Alphabet – Greek – Russian – Japanese Katakana/Hiragana – Numeric – Special Symbols • non-Chinese characters (186)*¹ <ul style="list-style-type: none"> – Vertical Forms – Box Drawing – Other Special Symbols • Chinese Radicals (28)*² • Ideographic Structure Symbols (13)*³ • PinYin*⁴(2)*⁵ 	911
Chinese Character Set <ul style="list-style-type: none"> • ISO 10646-1 CJK unified ideographs, including GB 2312-80 set (20902) • ISO 10646-1 CJK compatibility ideographs (21) • Additional Chinese characters (52)*⁶ 	20975
User Definable Character Set	1894
Notes: The number in parentheses indicates the number of characters assigned. <ol style="list-style-type: none"> 1) 33 characters identified by asterisk in Table 6 on page 13 and 153 characters identified by asterisk in Table 9 on page 16. 2) identified by double asterisk in Table 8 on page 14. 3) identified by double asterisk in Table 9 on page 16. 4) used for Latin Transcription of Mandarin Chinese. 5) identified by double asterisk in Table 6 on page 13. 6) characters with no asterisk in Table 8 on page 14. 	

4.4.2 Character Assignment. GBK code assigns additional characters in the range from X'8140' to X'FEFE' (excluding X'7F' in second *byte*) with preserving GB 2312-80 character assignment.

4.4.3 Code Scheme. The code scheme of the GBK code conforms to the *DBCS-PC* which is defined in C-S 3-3220-102.



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4.5 Relationship of GBK with ISO 10646-1

4.5.1 Non-Chinese Characters. GBK contains 682 GB 2312-80 Non-Chinese characters. They have corresponding characters in ISO 10646-1. In addition to this, 186 Non-Chinese characters that ISO 10646-1 supports are contained in GBK, as those identified by an asterisk in Table 6 on page 13 and Table 9 on page 16. Out of 2 PinYin (identified by double asterisk in Table 6 on page 13), one (X'A8BC') is supported in ISO 10646-1, but another one (X'A8BF') is not supported. 13 Ideographic Structure Symbols (identified by double asterisk in Table 9 on page 16), and 28 Chinese Radicals/Components (identified by double asterisk in Table 8 on page 14) are unique to GBK which ISO 10646-1 does not support.

4.5.2 Chinese Characters. Including 6763 GB 2312-80 Chinese characters, all of 20902 ISO 10646-1 CJK unified ideographs are assigned. The sequence of CJK unified ideographs corresponding to GB 2312-80 are equivalent to GB 2312-80 sequence. The rest of CJK unified ideographs are sequenced by ISO 10646-1 code sequence. In addition to 20902 ISO 10646-1 CJK unified ideographs, 21 Chinese characters from ISO 10646-1 CJK compatibility ideographs in Table 7 on page 14 are assigned. 52 Chinese Characters (with no asterisk in Table 8 on page 14), are unique to GBK which ISO 10646-1 does not support.

4.5.3 User-Definable Characters. GBK assigns the code spaces for 1894 User Definable Characters. They are corresponding to the subset of 6400 code points in ISO 10646-1 Private Use Area that are recommended to use for User Definable Characters.

4.6 Relationship of IBM CH-S GBK DBCS-PC with GBK

IBM CH-S GBK DBCS-PC has equivalent character coverage and character assignment to GBK.

4.7 Relationship of IBM CH-S GBK DBCS-Host with GBK

The IBM CH-S GBK DBCS-Host graphic character set is a superset of GBK. The character sequence is different from GBK.

5. Specification of Character Repertoire

5.1 Identification of Graphic Characters

This document specifies the repertoire of the CH-S *graphic character set* for GBK Code, DBCS-Host and DBCS-PC.

GCGIDs of non-Chinese characters refer to those registered in C-H 3-3220-055.

In Chinese character set, GCGIDs take the form 'Exxx0080'; those for user definable characters take the form 'Xzzz0080', which follows the specification of C-H 3-3220-055.

For the character which is planned to be registered in C-H 3-3220-055, *GCGID* takes the form 'U000xxxx' where 'xxxx' is corresponding *code point* in UCS-2 of ISO 10646-1.

6. Character Sets and Code Pages

6.1 Registration of GCSGID and CPGID

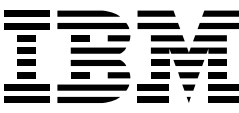
This specification registers the growing character set with the minimum repertoires and the subsets of the IBM CH-S *Graphic Character Set* for GBK Code, DBCS-Host and DBCS-PC, and identifies them by *Graphic Character Set Global Identifiers (GCSGIDs)*.

It also specifies a relevant *DBCS-Host code page* and *DBCS-PC code page* for their *graphic character sets* and identifies them by *Code Page Global Identifiers (CPGIDs)*.

Table 2 on page 5 specifies the *GCSGIDs* and the *CPGIDs* of the *registered coded graphic character set* for GBK Code, DBCS-Host and DBCS-PC.

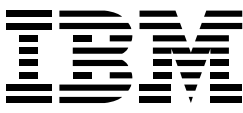
The registration category "U" means "Unrestricted," which implies that *graphic character sets* and *code pages* in this category have potential broad implementation in information processing *products*.

Note: See C-H 3-3220-050 for the detail of registration categories of *graphic character sets* and *code pages*.

**IBM Simplified Chinese Graphic Character Set, GBK Code**

DBCS-Host and DBCS-PC

Table 2. Registration of GCSGID and CPGID for GBK Code, DBCS-Host and DBCS-PC					
CGCSGID GCSGID	CPGID	Name	Set Size	References in Table 3 on page 6 and Figure 1 on page 7	Category of Registration
65535	01385	GBK DBCS-PC DBCS-PC, including 7 445 GB 2312-80 characters, 35 Non-Chinese characters on GB 2312-80 area, 194 Non-Chinese characters, 14 212 Chinese characters, 1 894 UDCs, and other growing characters Wards 81 to FE	23 780 (Mini - mum)	GBK/1, 2, 3, 4, 5 and UDC-1, 2, 3 of Table 3	U
01084	01385	GBK DBCS-PC DBCS-PC without UDCs	21 886	GBK/1, 2, 3, 4 and 5 of Table 3	U
65535	00837	GBK DBCS-Host DBCS-Host, including 7 445 GB 2312-80 characters, 232 Non-Chinese characters, 14 212 Chinese characters, 1 894 UDCs, and other growing characters Wards 81 to FE	23 783 (Mini - mum)	Area 0, 1, 2, 3, 4a, 4b, 5 and 6 of Table 4	U
01085	00837	GBK DBCS-Host DBCS-Host without UDCs	21 889	Area 0, 1, 2, 3, 4a, 4b and 5 of Table 4	U

**IBM Simplified Chinese Graphic Character Set, GBK Code**

DBCS-Host and DBCS-PC

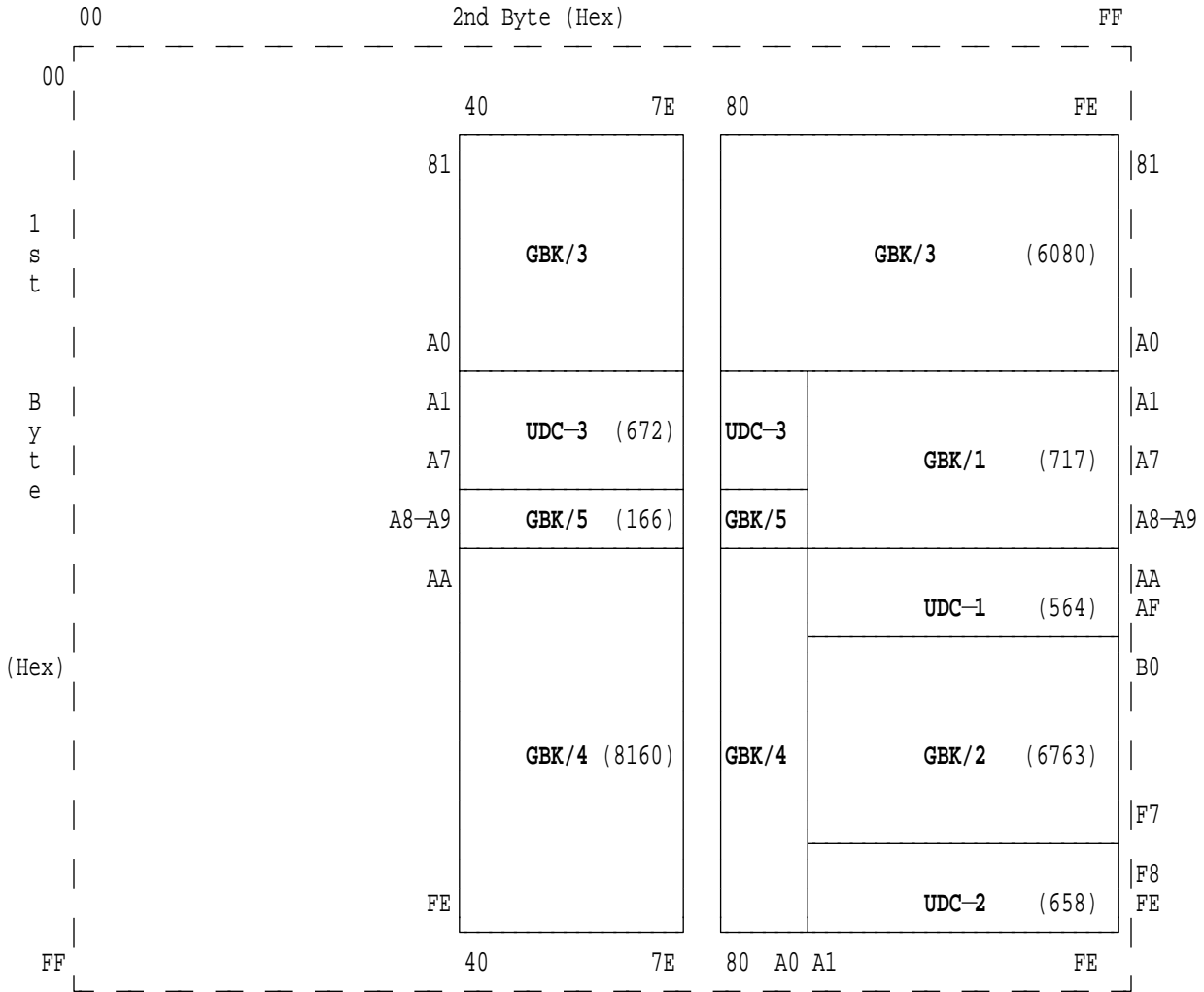
6.2 Structure of GBK DBCS-PC

The GBK DBCS-PC is structured as shown in Table 3 and Figure 1 on page 7.

Table 3. Code Structure of GBK DBCS-PC				
Area	Contents	First Byte	Second Byte	Num. of Char/Num. of Code Point
GBK/1	GB 2312-80 Non-Chinese Character Set ^(*1)	A1 to A9	A1 to FE	717/846 ^(*2)
GBK/2	GB 2312-80 Chinese Character Set	B0 to F7	A1 to FE	6 763/6 768 ^(*3)
GBK/3	Extended Chinese Character Set <ul style="list-style-type: none"> • ISO 10646-1 CJK unified ideographs 	81 to A0	40 to FE ^(*4)	6 080/6 080
GBK/4	Extended Chinese Character Set <ul style="list-style-type: none"> • ISO 10646-1 CJK unified ideographs • ISO 10646-1 CJK compatibility ideographs • Additional Chinese characters, radicals/components 	AA to FE	40 to A0 ^(*4)	8 160/8 160
GBK/5	Extended Non-Chinese Character Set <ul style="list-style-type: none"> • Big-5 Symbol Compatibility • Ideographic Structure Symbols 	A8 to A9	40 to A0 ^(*4)	166/192 ^(*5)
UDC-1	User Definable Characters Area	AA to AF	A1 to FE	564/564
UDC-2	User Definable Characters Area	F8 to FE	A1 to FE	658/658
UDC-3	User Definable Characters Area	A1 to A7	40 to A0 ^(*4)	672/672
Notes:				
1) It includes 35 characters besides GB 2312-80 characters.				
2) 129 <i>code points</i> are reserved for future assignment.				
3) 5 <i>code points</i> are reserved for future assignment.				
4) X'7F' is excluded.				
5) 26 <i>code points</i> are reserved for future assignment.				

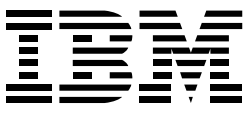
IBM Simplified Chinese Graphic Character Set, GBK Code

DBCS-Host and DBCS-PC



- Notes: 1) The number in parentheses indicates the number of characters assigned.
 2) The code point of DBCS Space is X'A1A1'.
 3) Each area includes the following character set:
 GBK/1, 5 ... Non-Chinese Character Set
 (GBK/1 ... including GB2312-80 Non-Chinese character set)
 GBK/2, 3, 4 ... Chinese Character Set
 (GBK/2 ... GB2312-80 Chinese character set)
 UDC-1, -2, -3 ... User Definable Character Area
 4) Also, see Table 3 on page 6 for the character contents.

Figure 1. Code Structure for GBK DBCS-PC (Overview)

**IBM Simplified Chinese Graphic Character Set, GBK Code**

DBCS-Host and DBCS-PC

6.3 Structure of GBK DBCS-Host

The GBK DBCS-Host is structured as shown in Table 4 and Figure 2 on page 9.

Table 4. Code Structure of GBK DBCS-Host

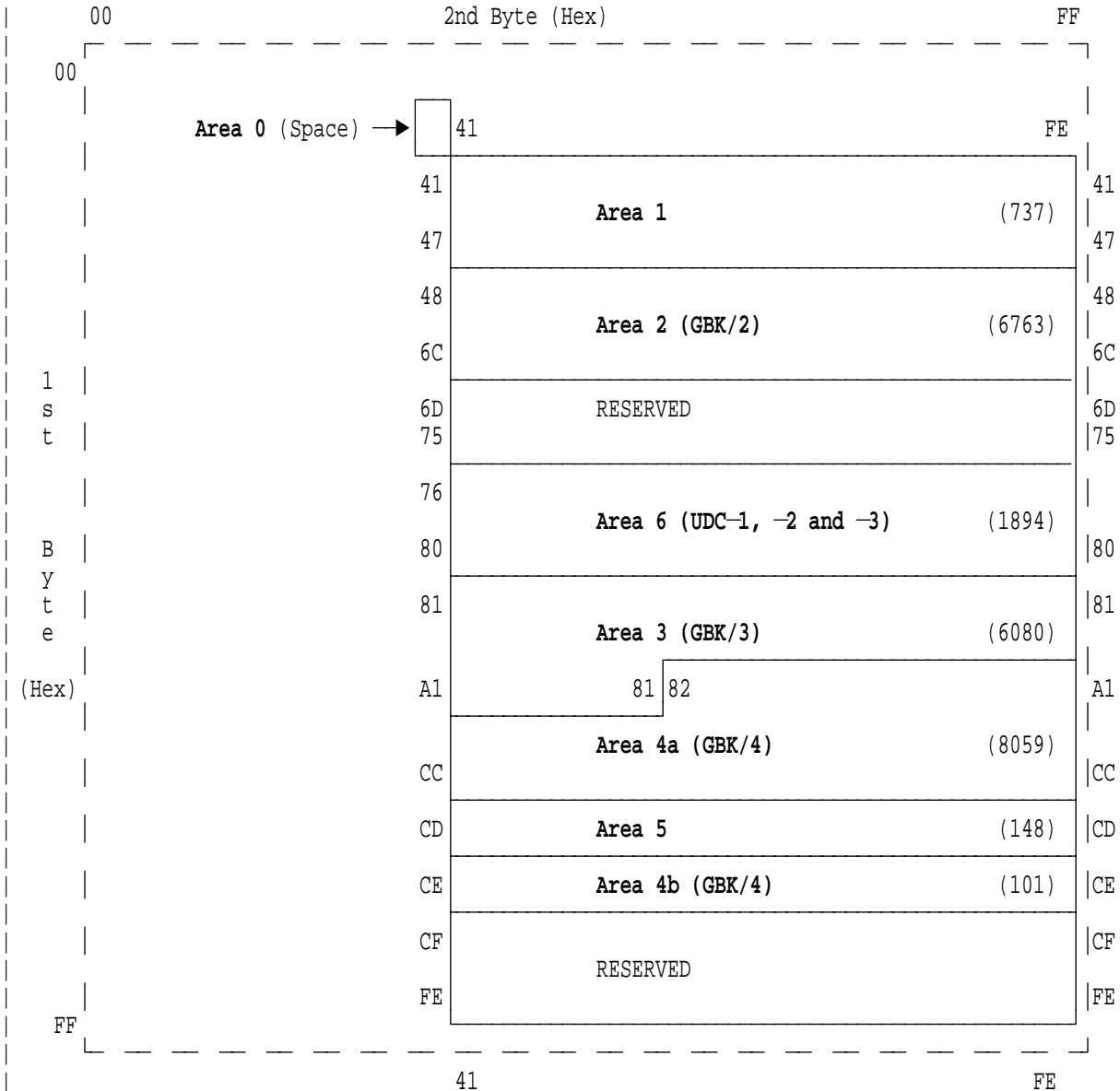
Area	Contents	First Byte	Number of Characters
Area 0	Space	(X'4040')	1
Area 1	GB 2312-80 Non-Chinese Character Set(*1)	41 to 47	737
Area 2 (GBK/2)	GB 2312-80 Chinese Character Set	48 to 6C	6 763
Area 3 (GBK/3)	Extended Chinese Character Set <ul style="list-style-type: none"> • ISO 10646-1 CJK unified ideographs 	81 to A1(*2)	6 080
Area 4a (GBK/4)	Extended Chinese Character Set <ul style="list-style-type: none"> • ISO 10646-1 CJK unified ideographs 	A1(*2) to CC	8 059
Area 4b (GBK/4)	Extended Chinese Character Set <ul style="list-style-type: none"> • ISO 10646-1 CJK compatibility ideographs • Additional Chinese characters, radicals/components 	CE	101
Area 5	Extended Non-Chinese Character Set <ul style="list-style-type: none"> • Big-5 Symbol Compatibility • Ideographic Structure Symbols 	CD	148
Area 6	User Definable Characters Area	76 to 80	1 894
	Reserved for Future Assignments	6D to 75	
	Reserved for Future Assignments	CF to FE	

Notes:

- 1) It includes 56 characters besides GB 2312-80 characters.
- 2) A part of ward is used for this character set area.

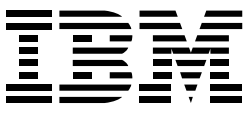
IBM Simplified Chinese Graphic Character Set, GBK Code

DBCS-Host and DBCS-PC



- Notes:
- 1) The number in parentheses indicates the number of characters assigned.
 - 2) Area 0, 1, 2 and 6 cover DBCS-Host(C-H 3-3220-130) with some additional chars.
 - 3) Each area includes the following character set:
 - Area 1 ... Non-Chinese Character Set
(all GBK/1 characters and some of GBK/5 characters)
 - Area 2 (GBK/2) ... Chinese Character Set (all GBK/2 characters)
 - Area 3 (GBK/3) ... Chinese Character Set (all GBK/3 characters)
 - Area 4a (GBK/4) ... Chinese Character Set
(all ISO 10646-1 CJK Unified characters of GBK/4)
 - Area 4b (GBK/4) ... Non-Chinese and Chinese Character Set
(other GBK/4 characters)
 - Area 5 ... Non-Chinese Character Set (some of GBK/5 characters)
 - Area 6 ... User Definable Character Area (UDC-1, UDC-2 and UDC-3)
 - 4) Also, see Table 4 on page 8 for the character contents.

Figure 2. Code Structure for GBK DBCS-Host (Overview)

**IBM Simplified Chinese Graphic Character Set, GBK Code**

DBCS-Host and DBCS-PC

7. Code Translation Correspondence

The *code* translation correspondence between GBK DBCS-PC and GBK DBCS-Host is defined in this specification. And also the code translation correspondences between GBK DBCS-PC or GBK DBCS-Host and the following *code pages* are defined:

- DBCS-PC (CPGID 01380)
- DBCS-Host
- DBCS-EUC (CPGID 01382)
- GB 2312-80

Note: Only in this chapter, “GBK-Host” will be synonymously used for “GBK DBCS-Host”, and “GBK-PC” will be synonymously used for “GBK DBCS-PC”. And also, “GB-Host” will be used for “DBCS-Host”, and “GB-PC” will be used for “DBCS-PC (CPGID 01380)”.

7.1 Code Translation Correspondence of GB 2312-80 Characters in GBK Code

7.1.1 Between GBK-PC and GB-PC/DBCS-EUC. Since the code scheme of GB-PC, DBCS-EUC and GBK-PC are designed based on GB 2312-80, they have the same structure and *code point* for each character. For code translation correspondence among them, no conversion is required.

7.1.2 Between GBK-Host and GB-Host. Since the specification of GB 2312-80 Characters in GBK-Host is equivalent to the one for GB-Host, no conversion is required for code translation.

7.1.3 Between GBK-PC and GBK-Host. The code correspondence between GBK-PC and GBK-Host is equivalent to the one between GB-PC and GB-Host that can be found in C-H 3-3220-130.

7.2 Code Translation Correspondence of non-GB 2312-80 Characters in GBK Code

7.2.1 Between GBK-PC and GB-PC/GB-Host/DBCS-EUC. None of GB-PC, GB-Host and DBCS-EUC contain non-GB 2312-80 characters in GBK-PC except the corresponding *code points* to 31 IBM selected characters. The code translation of 31 IBM selected characters are shown in Table 15 on page 28. Others are substituted.

7.2.2 Between GBK-Host and GB-PC/GB-Host/DBCS-EUC. None of GB-PC, GB-Host and DBCS-EUC contain non-GB 2312-80 characters in GBK-Host except the corresponding *code points* to 31 IBM selected characters. The code translation of 31 IBM selected characters are shown in Table 15 on page 28. Others are substituted. Note that the specification of 31 IBM selected characters in GBK-Host is equivalent to the one for GB-Host.

7.2.3 Between GBK-PC and GBK-Host. The code translation correspondence of Non-Chinese Characters is shown in Table 6 on page 13 and Table 9 on page 16 that are ordered in GBK-PC code sequence, or Table 11 on page 21 and Table 14 on page 24 that are ordered in GBK-Host code sequence.

Out of Chinese Characters, the code translation correspondence of ISO 10646-1 CJK Unified Ideographs is sequentially given from the code point of the source in both translation of GBK-PC to GBK-Host and vice versa. For example, the first code point of the GBK-PC GBK/3 area (X'8140') can be mapped to the first code point of GBK-Host Area 3 (X'8141'), and the mapping sequentially continues.

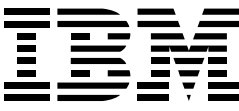
The code translation correspondence of other Chinese Characters and Chinese radicals is shown in Table 7 on page 14 and Table 8 on page 14 that are ordered in GBK-PC code sequence, or Table 12 on page 22 and Table 13 on page 22 that are ordered in GBK-Host code sequence.

7.3 Code Translation Correspondence of User Definable Characters in GBK Code

GBK-PC and GBK-Host has 1894 UDCs, while both of GB-PC and GB-Host have 1880 UDCs and DBCS-EUC has 1360 UDCs.

7.3.1 Code Translation Correspondence between GBK-PC and GBK-Host/GB-PC/GB-Host. The *code translation* correspondence between GBK-PC and GBK-Host/GB-PC/GB-Host is sequentially given from the *code point* of the source in both translation of GBK-PC to others and vice versa.

For example, the first *code point* of the GBK-PC UDC area (X'AAA1') can be mapped to the first *code point* of GB-PC UDC area (X'8DA1') or to the first *code point* of GBK-Host/GB-Host UDC area (X'7641'), and the mapping sequentially continues.



IBM Simplified Chinese Graphic Character Set, GBK Code

DBCS-Host and DBCS-PC

The user definable character areas are, however, divided into 3 segments on GBK-PC. These three UDC areas are used in the following ordering.

1st UDC

1st 564 UDCs, from X'AAA1' to X'AFFE' except second byte from X'40' to X'A0'.

2nd UDC

2nd 658 UDCs, from X'F8A1' to X'FEFE' except second byte from X'40' to X'A0'.

3rd UDC

3rd 672 UDCs, from X'A140' to X'A7A0' except second byte X'7F' and from X'A1' to X'FE'.

The last 14 UDCs are substituted on the code translation correspondence from GBK-PC to GB-PC/GB-Host.

7.3.2 Code Translation Correspondence between GBK-PC and DBCS-EUC.

Since 1360 UDCs are scattered on DBCS-EUC, a logical conversion is not applicable in the code translation correspondence between GBK-PC and DBCS-EUC. The code translation correspondence can be found in C-H 3-3220-132 via code points either of GB-PC or GB-Host obtained from the code translation in Section 7.3.1 on page 10.

The last 534 UDCs are substituted on the code translation correspondence from GBK-PC to DBCS-EUC.

7.3.3 Code Translation Correspondence between GBK-Host and GB-Host.

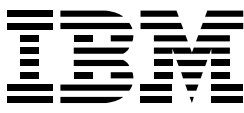
Since the specification of User Definable Characters in GBK-Host is equivalent to the one for GB-Host, no conversion is required for code translation. The last 14 UDCs of GBK-Host are substituted on the code translation correspondence from GBK-Host to GB-Host.

7.3.4 Code Translation Correspondence between GBK-Host and GB-PC.

The code translation correspondence between GBK-Host and GB-PC is logically given from the code point of the source in both translation of GBK-Host to other and vice versa. The last 14 UDCs of GBK-Host are substituted on the code translation correspondence from GBK-Host to GB-PC.

7.3.5 Code Translation Correspondence between GBK-Host and DBCS-EUC.

The code translation correspondence between GBK-Host and DBCS-EUC is equivalent to the one between GB-Host and DBCS-EUC in C-H 3-3220-132. The last 534 UDCs are substituted on the code translation correspondence from GBK-Host to DBCS-EUC.

**IBM Simplified Chinese Graphic Character Set, GBK Code**

DBCS-Host and DBCS-PC

8. GBK DBCS-PC Specification

In this section, the specification of the CH-S GBK DBCS-PC *coded graphic character sets* is provided.

The following Table 5 summarizes it.

Table 5. GBK DBCS-PC Character Specification			
Area	Contents	Number of Characters	Specification
GBK/1	GB 2312-80 Non-Chinese Character Set	682	Equivalent to CH-S DBCS-PC (CPGID 01380) Refer to C-H 3-3220-130
	Extended Non-Chinese Character Set (Non GB 2312-80)	35	Table 6 on page 13
GBK/2	GB 2312-80 Chinese Character Set	6763	Equivalent to CH-S DBCS-PC (CPGID 01380) Refer to C-H 3-3220-130
GBK/3	ISO 10646-1 CJK unified ideographs	6080	ISO 10646-1 CJK unified ideographs are sequentially assigned except GB 2312-80 Chinese Character Set
GBK/4	ISO 10646-1 CJK unified ideographs	8059	
	ISO 10646-1 CJK compatibility ideographs	21		Table 7 on page 14
	Additional Chinese characters, radicals/components	80	Table 8 on page 14
GBK/5	Extended Non-Chinese Character Set	166	Table 9 on page 16
UDC-1	User Definable Character (Part-1)	564	UDCs sequentially assigned
UDC-2	User Definable Character (Part-2)	658	
UDC-3	User Definable Character (Part-3)	672	

IBM Simplified Chinese Graphic Character Set, GBK Code

DBCS-Host and DBCS-PC

8.1 GBK/1 (Non-Chinese Character Set)

8.1.1 GB 2312-80 Set. The specification of GB 2312-80 Non-Chinese Character Set (682 characters) in GBK DBCS-PC is equivalent to *DBCS-PC Code* of Non-Chinese Character Set in C-H 3-3220-130.

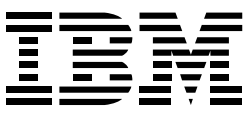
8.1.2 Non GB 2312-80 Set

Line Number	Graphic	PC GBK Code	Host GBK Code	GCGID
1	i	A2A1*	41B1***	NR010080*
2	ii	A2A2*	41B2***	NR020080*
3	iii	A2A3*	41B3***	NR030080*
4	iv	A2A4*	41B4***	NR040080*
5	v	A2A5*	41B5***	NR050080*
6	vi	A2A6*	41B6***	NR060080*
7	vii	A2A7*	41B7***	NR070080*
8	viii	A2A8*	41B8***	NR080080*
9	ix	A2A9*	41B9***	NR090080*
10	x	A2AA*	41BA***	NR100080*
11	⌒	A6E0*	4741	SP240080*
12	⌓	A6E1*	4742	SP250080*
13	⌔	A6E2*	4743	SP240081*
14	⌕	A6E3*	4744	SP250081*
15	⌖	A6E4*	4745	SP240082*
16	⌗	A6E5*	4746	SP250082*
17	⌘	A6E6*	4747	SP240083*
18	⌙	A6E7*	4748	SP250083*
19	⌚	A6E8*	4749	SP360080*
20	⌛	A6E9*	474A	SP370080*
21	⌜	A6EA*	474B	SP360081*

Line Number	Graphic	PC GBK Code	Host GBK Code	GCGID
22	⌝	A6EB*	474C	SP370081*
23	⌞	A6EE*	474D	SP240084*
24	⌟	A6EF*	474E	SP250084*
25	⌠	A6F0*	474F	SP340080*
26	⌡	A6F1*	4750	SP350080*
27	⌢	A6F2*	4751	SV070080*
28	⌣	A6F4*	4752	SV530080*
29	⌤	A6F5*	4753	SV450080*
30	ɑ	A8BB*	465B	LA010081*
31	Ⓜ	A8BC**	465C	LM110080**
32	ñ	A8BD*	465D	LN110080*
33	ň	A8BE*	465E	LN210080*
34	ṅ	A8BF**	465F	LN130080**
35	g	A8C0*	4660	LG010081*

Note:

- * These characters are contained in ISO 10646-1.
- ** X'A8BC' is contained in ISO 10646-1, but X'A8BF' is not.
- *** They are equivalent to DBCS-Host (C-H 3-3220-130).



IBM Simplified Chinese Graphic Character Set, GBK Code

DBCS-Host and DBCS-PC

8.2 GBK/2 (Chinese Character Set)

The specification of GBK/2 is equivalent to *DBCS-PC Code* of Chinese Character Sets (Level 1 and Level 2) in C-H 3-3220-130.

8.3 GBK/3 (Chinese Character Set)

On GBK/3, ISO 10646-1 CJK unified ideographs are sequentially assigned except the characters corresponding to Chinese Character in GBK/2.

8.4 GBK/4 (Chinese Character Set)

8.4.1 ISO 10646-1 CJK Unified Ideographs. On GBK/4, ISO 10646-1 CJK unified ideographs are sequentially assigned continuously from GBK/3, except the characters corresponding to Chinese Character in GBK/2.

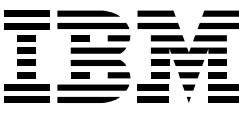
8.4.2 ISO 10646-1 CJK Compatibility Ideographs

Table 7. ISO 10646-1 CJK Compatibility Ideographs, GBK/4, GBK DBCS-PC				
Line Number	Graphic	PC GBK Code	Host GBK Code	GCGID
1	郎	FD9C	CE41	U000F92C
2	涼	FD9D	CE42	U000F979
3	季	FD9E	CE43	U000F995
4	裏	FD9F	CE44	U000F9E7
5	隣	FDA0	CE45	U000F9F1
6	兀	FE40	CE46	U000FA0C
7	設	FE41	CE47	U000FA0D
8	雙	FE42	CE48	U000FA0E
9	塔	FE43	CE49	U000FA0F
10	崎	FE44	CE4A	U000FA11
11	栳	FE45	CE4B	U000FA13
12	榉	FE46	CE4C	U000FA14
13	礼	FE47	CE4D	U000FA18
14	藤	FE48	CE4E	U000FA1F

Table 7. ISO 10646-1 CJK Compatibility Ideographs, GBK/4, GBK DBCS-PC				
Line Number	Graphic	PC GBK Code	Host GBK Code	GCGID
15	蕓	FE49	CE4F	U000FA20
16	蚌	FE4A	CE50	U000FA21
17	赳	FE4B	CE51	U000FA23
18	逦	FE4C	CE52	U000FA24
19	銜	FE4D	CE53	U000FA27
20	銜	FE4E	CE54	U000FA28
21	隄	FE4F	CE55	U000FA29

8.4.3 Additional Chinese Characters and Radicals/Components

Table 8 (Page 1 of 3). Additional Chinese characters and radicals/components, GBK/4, GBK DBCS-PC				
Line Number	Graphic	PC GBK Code	Host GBK Code	GCGID
1	厂	FE50**	CE56	EL1Y0080**
2	ナ	FE51**	CE57	EL1Z0080**
3	ㄥ	FE52**	CE58	EL200080**
4	丿	FE53**	CE59	EL210080**
5	ㄣ	FE54**	CE5A	EL220080**
6	儻	FE55	CE5B	EL230080
7	侑	FE56	CE5C	EL240080
8	ㄣ	FE57**	CE5D	EL250080**
9	巳	FE58**	CE5E	EL260080**
10	マ	FE59**	CE5F	EL270080**
11	唎	FE5A	CE60	EL280080
12	囁	FE5B	CE61	EL290080
13	囁	FE5C	CE62	EL2A0080



IBM Simplified Chinese Graphic Character Set, GBK Code

DBCS-Host and DBCS-PC

Table 8 (Page 2 of 3). Additional Chinese characters and radicals/components, GBK/4, GBK DBCS-PC				
Line Number	Graphic	PC GBK Code	Host GBK Code	GCGID
14	灬	FE5D**	CE63	EL2B0080**
15	小	FE5E**	CE64	EL2C0080**
16	憫	FE5F	CE65	EL2D0080
17	忼	FE60	CE66	EL2E0080
18	手	FE61**	CE67	EL2F0080**
19	扌	FE62	CE68	EL2G0080
20	扌	FE63	CE69	EL2H0080
21	扌	FE64	CE6A	EL2I0080
22	扌	FE65	CE6B	EL2J0080
23	丰	FE66**	CE6C	EL2K0080**
24	丰	FE67**	CE6D	EL2L0080**
25	扌	FE68	CE6E	EL2M0080
26	殳	FE69	CE6F	EL2N0080
27	灬	FE6A	CE70	EL2O0080
28	生	FE6B**	CE71	EL2P0080**
29	夫	FE6C**	CE72	EL2Q0080**
30	灬	FE6D**	CE73	EL2R0080**
31	正	FE6E**	CE74	EL2S0080**
32	睪	FE6F	CE75	EL2T0080
33	穆	FE70	CE76	EL2U0080
34	灬	FE71**	CE77	EL2V0080**
35	紬	FE72	CE78	EL2W0080
36	丌	FE73**	CE79	EL2X0080**
37	𠂇	FE74**	CE7A	EL2Y0080**
38	𠂇	FE75**	CE7B	EL2Z0080**

Table 8 (Page 2 of 3). Additional Chinese characters and radicals/components, GBK/4, GBK DBCS-PC				
Line Number	Graphic	PC GBK Code	Host GBK Code	GCGID
39	𠂇	FE76**	CE7C	EL300080**
40	糶	FE77	CE7D	EL310080
41	糶	FE78	CE7E	EL320080
42	丰	FE79**	CE7F	EL330080**
43	肱	FE7A	CE81	EL350080
44	芴	FE7B	CE82	EL360080
45	禛	FE7C	CE83	EL370080
46	禛	FE7D	CE84	EL380080
47	𠂇	FE7E**	CE85	EL390080**
48	訢	FE80	CE86	EL3A0080
49	讖	FE81	CE87	EL3B0080
50	賻	FE82	CE88	EL3C0080
51	賻	FE83	CE89	EL3D0080
52	足	FE84**	CE8A	EL3E0080**
53	鎬	FE85	CE8B	EL3F0080
54	𠂇	FE86	CE8C	EL3G0080
55	𠂇	FE87	CE8D	EL3H0080
56	鎬	FE88	CE8E	EL3I0080
57	鎬	FE89	CE8F	EL3J0080
58	鎬	FE8A	CE90	EL3K0080
59	𠂇	FE8B	CE91	EL3L0080
60	𠂇	FE8C	CE92	EL3M0080
61	𠂇	FE8D	CE93	EL3N0080
62	𠂇	FE8E	CE94	EL3O0080
63	𠂇	FE8F	CE95	EL3P0080

IBM Simplified Chinese Graphic Character Set, GBK Code

DBCS-Host and DBCS-PC

Table 8 (Page 3 of 3). Additional Chinese characters and radicals/components, GBK/4, GBK DBCS-PC

Line Number	Graphic	PC GBK Code	Host GBK Code	GCGID
64	卓	FE90**	CE96	EL3Q0080**
65	𠂇	FE91**	CE97	EL3R0080**
66	𠂈	FE92	CE98	EL3S0080
67	𠂉	FE93	CE99	EL3T0080
68	𠂊	FE94	CE9A	EL3U0080
69	𠂋	FE95	CE9B	EL3V0080
70	𠂌	FE96	CE9C	EL3W0080
71	𠂍	FE97	CE9D	EL3X0080
72	𠂎	FE98	CE9E	EL3Y0080
73	𠂏	FE99	CE9F	EL3Z0080
74	𠂐	FE9A	CEA0	EL400080
75	𠂑	FE9B	CEA1	EL410080
76	𠂒	FE9C	CEA2	EL420080
77	𠂓	FE9D	CEA3	EL430080
78	𠂔	FE9E	CEA4	EL440080
79	𠂕	FE9F	CEA5	EL450080
80	𠂖	FEA0**	CEA6	EL460080**

Note:
** These characters are radicals.

8.5 GBK/5 (Non-Chinese Character Set)

Table 9 (Page 1 of 4). Non-Chinese Character Set, GBK/5, GBK DBCS-PC

Line Number	Graphic	PC GBK Code	Host GBK Code	GCGID
1	ˊ	A840*	CD41	SB380080*
2	ˋ	A841*	CD42	SB400080*
3	˙	A842*	CD43	SD290080* SB410080*
4	ˉ	A843*	CD44	SS680080*
5	—	A844*	CD45	SM120080*
6	¨	A845*	447E***	SV430080*
7	˘	A846*	CD46	SD130080*
8	‰	A847*	CD47	SS640080*
9	°F	A848*	CD48	SM850080*
10	↖	A849*	CD49	SM970080*
11	↗	A84A*	CD4A	SM950080*
12	↘	A84B*	CD4B	SM990080*
13	↙	A84C*	CD4C	SM980080*
14	/	A84D*	CD4D	SP120081*
15	└	A84E*	CD4E	SA420080*
16	|	A84F*	CD4F	U0002223*
17	≡	A850*	CD50	SA700081*
18	≡	A851*	CD51	SA520082*
19	≡	A852*	CD52	SA530082*
20	∠	A853*	CD53	SA850080*
21	—	A854*	CD54	SF430080*
22	||	A855*	CD55	SF240080*
23	┐	A856*	CD56	SF510080*
24	┐	A857*	CD57	SF520080*

IBM Simplified Chinese Graphic Character Set, GBK Code

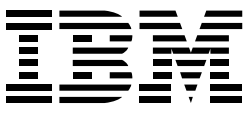
DBCS-Host and DBCS-PC

Table 9 (Page 2 of 4). Non-Chinese Character Set, GBK/5, GBK DBCS-PC

Line Number	Graphic	PC GBK Code	Host GBK Code	GCGID
25	┐	A858*	CD58	SF390080*
26	┌	A859*	CD59	SF220080*
27	┐	A85A*	CD5A	SF210080*
28	┌	A85B*	CD5B	SF250080*
29	└	A85C*	CD5C	SF500080*
30	┐	A85D*	CD5D	SF490080*
31	┌	A85E*	CD5E	SF380080*
32	┘	A85F*	CD5F	SF280080*
33	┙	A860*	CD60	SF270080*
34	┘	A861*	CD61	SF260080*
35	┌	A862*	CD62	SF360080*
36	┐	A863*	CD63	SF370080*
37	┌	A864*	CD64	SF420080*
38	┐	A865*	CD65	SF190080*
39	┐	A866*	CD66	SF200080*
40	┐	A867*	CD67	SF230080*
41	┐	A868*	CD68	SF470080*
42	┐	A869*	CD69	SF480080*
43	┐	A86A*	CD6A	SF410080*
44	┐	A86B*	CD6B	SF450080*
45	┐	A86C*	CD6C	SF460080*
46	┐	A86D*	CD6D	SF400080*
47	┐	A86E*	CD6E	SF540080*
48	┐	A86F*	CD6F	SF530080*
49	┐	A870*	CD70	SF440080*

Table 9 (Page 2 of 4). Non-Chinese Character Set, GBK/5, GBK DBCS-PC

Line Number	Graphic	PC GBK Code	Host GBK Code	GCGID
50	┐	A871*	CD71	SS160080*
51	┐	A872*	CD72	SS180080*
52	┐	A873*	CD73	SS190080*
53	┐	A874*	CD74	SS170080*
54	┐	A875*	CD75	SH020080*
55	┐	A876*	CD76	SH030080*
56	✕	A877*	CD77	SH040080*
57	—	A878*	CD78	SF700081*
58	—	A879*	CD79	SF710081*
59	■	A87A*	CD7A	SF720081*
60	■	A87B*	CD7B	SF570080* SF730081*
61	■	A87C*	CD7C	SF740081*
62	■	A87D*	CD7D	SF750081*
63	■	A87E*	CD7E	SF760081*
64	■	A880*	CD7F	SF610080*
65	■	A881*	CD81	SF830081*
66	■	A882*	CD82	SF820081*
67	■	A883*	CD83	SF810081*
68	■	A884*	CD84	SF800081*
69	■	A885*	CD85	SF790081*
70	■	A886*	CD86	SF780081*
71	■	A887*	CD87	SF770081*
72	■	A888*	CD88	SF160080*
73	—	A889*	CD89	SF670080*
74	■	A88A*	CD8A	SF650080*



IBM Simplified Chinese Graphic Character Set, GBK Code

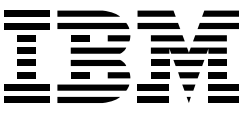
DBCS-Host and DBCS-PC

Table 9 (Page 3 of 4). Non-Chinese Character Set, GBK/5, GBK DBCS-PC

Line Number	Graphic	PC GBK Code	Host GBK Code	GCGID
75	▼	A88B*	44EC***	SV040080*
76	▽	A88C*	44EB***	SM740080*
77	▲	A88D*	CD8B	SF840080*
78	▴	A88E*	CD8C	SF850080*
79	▸	A88F*	CD8D	SF870080*
80	▾	A890*	CD8E	SF860080*
81	⊙	A891*	CD8F	U0002609*
82	⊕	A892*	CD90	SA550080*
83	〒	A893*	446C***	SS730080*
84	“	A894*	CD91	SP210081*
85	”	A895*	CD92	SP220081*
86	|	A940*	CD93	NC010080*
87	||	A941*	CD94	NC020080*
88	|||	A942*	CD95	NC030080*
89	×	A943*	CD96	NC040080*
90	℄	A944*	CD97	NC050080*
91	⊥	A945*	CD98	NC060080*
92	≡	A946*	CD99	NC070080*
93	≡	A947*	CD9A	NC080080*
94	⌘	A948*	CD9B	NC090080*
95	⊕	A949*	CD9C	SS780080*
96	mg	A94A*	CD9D	SS850080*
97	kg	A94B*	CD9E	SS860080*
98	mm	A94C*	CD9F	SS810080*
99	cm	A94D*	CDA0	SS820080*

Table 9 (Page 3 of 4). Non-Chinese Character Set, GBK/5, GBK DBCS-PC

Line Number	Graphic	PC GBK Code	Host GBK Code	GCGID
100	km	A94E*	CDA1	SS830080*
101	m ²	A94F*	CDA2	SS840080*
102	cc	A950*	CDA3	SS870080*
103	KM	A951*	CDA4	SS830081*
104	ln	A952*	CDA5	SS890080*
105	log	A953*	CDA6	SS880080*
106	mil	A954*	CDA7	SS800080*
107	:	A955*	CDA8	SV550080*
108	┌	A956*	425F***	SM660080*
109	┐	A957*	426A***	SM650080*
110	TEL	A959*	446F***	SS710080*
111	株	A95A*	446D***	SS740080*
112	-	A95C*	445A***	SP320080*
113	—	A960*	4358***	JX700080*
114	∞	A961*	43BE***	JX710080*
115	°	A962*	43BF***	JX720080*
116	∞	A963*	43DC***	JQ750080*
117	∞	A964*	43DD***	JQ760080*
118	∞	A965*	445E***	SS720080*
119	∞	A966*	44DC***	RQ750080*
120	∞	A967*	44DD***	RQ760080*
121	---	A968*	CDA9	SV470080*
122	---	A969*	CDAA	SV490080*
123	----	A96A*	CDAB	SV500080*
124	----	A96B*	CDAC	SV510080*



IBM Simplified Chinese Graphic Character Set, GBK Code

DBCS-Host and DBCS-PC

Table 9 (Page 4 of 4). Non-Chinese Character Set, GBK/5, GBK DBCS-PC				
Line Number	Graphic	PC GBK Code	Host GBK Code	GCGID
125	---	A96C*	CDAD	SV120080*
126	---	A96D*	CDAE	SV480080*
127	----	A96E*	CDAF	SV460080*
128	,	A96F*	CDB0	SP081080*
129	\	A970*	CDB1	SP081084*
130	.	A971*	CDB2	SP111080*
131	;	A972*	CDB3	SP141080*
132	:	A973*	CDB4	SP131080*
133	?	A974*	CDB5	SP151080*
134	!	A975*	CDB6	SP021080*
135	(	A976*	CDB7	SP061080*
136	)	A977*	CDB8	SP071080*
137	{	A978*	CDB9	SM111080*
138	}	A979*	CDBA	SM141080*
139	(	A97A*	CDBB	SP061081*
140	)	A97B*	CDBC	SP071081*
141	#	A97C*	CDBD	SM011080*
142	&	A97D*	CDBE	SM031080*
143	*	A97E*	CDBF	SM04008A*
144	+	A980*	CDC0	SA011080*
145	-	A981*	CDC1	SA001080*
146	<	A982*	CDC2	SA031080*
147	>	A983*	CDC3	SA051080*
148	=	A984*	CDC4	SA041080*
149	\	A985*	CDC5	SM071080*

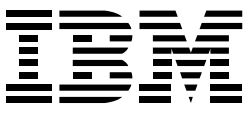
Table 9 (Page 4 of 4). Non-Chinese Character Set, GBK/5, GBK DBCS-PC				
Line Number	Graphic	PC GBK Code	Host GBK Code	GCGID
150	\$	A986*	CDC6	SC031080*
151	%	A987*	CDC7	SM021080*
152	@	A988*	CDC8	SM051080*
153	☒	A989**	CDC9	SI010080**
154	☐	A98A**	CDCA	SI020080**
155	☒	A98B**	CDCB	SI030080**
156	☐	A98C**	CDCC	SI040080**
157	☒	A98D**	CDCD	SI050080**
158	☐	A98E**	CDCE	SI060080**
159	☐	A98F**	CDCF	SI070080**
160	☐	A990**	CDD0	SI080080**
161	☒	A991**	CDD1	SI090080**
162	☐	A992**	CDD2	SI100080**
163	☐	A993**	CDD3	SI110080**
164	☐	A994**	CDD4	SI120080**
165	☐	A995**	CDD5	SI130080**
166	○	A996*	445F***	ND100087*

Note:

* These characters are contained in ISO 10646-1.

** These characters are not contained in ISO 10646-1.

*** They are equivalent to DBCS-Host (C-H 3-3220-130).



IBM Simplified Chinese Graphic Character Set, GBK Code

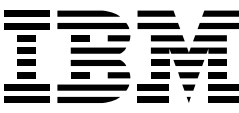
DBCS-Host and DBCS-PC

9. GBK DBCS-Host Specification

In this section, the specification of the CH-S GBK DBCS-Host coded graphic character sets is provided. The following Table 10 summarizes it.

Table 10. GBK DBCS-Host Character Specification

Area	Contents	Number of Characters	Specification
Area 0	Space	1	Equivalent to CH-S DBCS-Host Refer to C-H 3-3220-130
Area 1	Non-Chinese Character Set incl. GB 2312-80 Non-Chinese Characters Equivalent to all CH-S DBCS-Host (C-H 3-3220-130) Non-Chinese	712	
	Extended Non-Chinese Character Set <ul style="list-style-type: none"> • PinYin (Chinese Phonetic) • Vertical Forms 	25	Table 11 on page 21
Area 2	GB 2312-80 Chinese Character Set	6763	Equivalent to CH-S DBCS-Host Refer to C-H 3-3220-130
Area 3	ISO 10646-1 CJK unified ideographs	6080	ISO 10646-1 CJK unified ideographs are sequentially assigned except GB 2312-80 Chinese Character Set
Area 4a	ISO 10646-1 CJK unified ideographs	8059	
Area 4b	ISO 10646-1 CJK compatibility ideographs	21	Table 12 on page 22
	Additional Chinese characters, radicals/components	80	Table 13 on page 22
Area 5	Extended Non-Chinese Character Set	148	Table 14 on page 24
Area 6	User Definable Characters	1894	UDCs sequentially assigned



IBM Simplified Chinese Graphic Character Set, GBK Code

DBCS-Host and DBCS-PC

9.1 Area 1 (Non-Chinese Character Set)

9.1.1 Non-Chinese Character Set. The specification of Area 1 Non-Chinese Character Set is equivalent to CH-S DBCS-Host (C-H 3-3220-130) Non-Chinese Character Set.

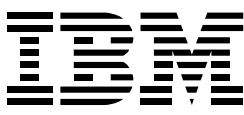
9.1.2 Extended Non-Chinese Character Set

Table 11. Non-GB 2312 Symbol, Area 1, GBK DBCS-Host

Line Number	Graphic	Host GBK Code	PC GBK Code	GCGID
22	ㄣ	4750	A6F1	SP350080
23	丨	4751	A6F2	SV070080
24	丨	4752	A6F4	SV530080
25	丨	4753	A6F5	SV450080

Table 11. Non-GB 2312 Symbol, Area 1, GBK DBCS-Host

Line Number	Graphic	Host GBK Code	PC GBK Code	GCGID
1	ɑ	465B	A8BB	LA010081
2	ɑ	465C	A8BC	LM110080
3	ɑ	465D	A8BD	LN110080
4	ɑ	465E	A8BE	LN210080
5	ɑ	465F	A8BF	LN130080
6	g	4660	A8C0	LG010081
7	ㄣ	4741	A6E0	SP240080
8	ㄣ	4742	A6E1	SP250080
9	ㄣ	4743	A6E2	SP240081
10	ㄣ	4744	A6E3	SP250081
11	ㄣ	4745	A6E4	SP240082
12	ㄣ	4746	A6E5	SP250082
13	ㄣ	4747	A6E6	SP240083
14	ㄣ	4748	A6E7	SP250083
15	ㄣ	4749	A6E8	SP360080
16	ㄣ	474A	A6E9	SP370080
17	ㄣ	474B	A6EA	SP360081
18	ㄣ	474C	A6EB	SP370081
19	ㄣ	474D	A6EE	SP240084
20	ㄣ	474E	A6EF	SP250084
21	ㄣ	474F	A6F0	SP340080



IBM Simplified Chinese Graphic Character Set, GBK Code

DBCS-Host and DBCS-PC

9.2 Area 2 (GBK/2, GB 2312-80 Chinese Character Set)

The specification of Area 2 (GBK/2, GB 2312-80 Chinese Character Set) is equivalent to DBCS-Host Code of Chinese Character Sets (Level 1 and Level 2) in C-H 3-3220-130.

9.3 Area 3 (GBK/3, Chinese Character Set)

On Area 3 (GBK/3, Chinese Character Set), ISO 10646-1 CJK unified ideographs are sequentially assigned except the characters corresponding to Chinese Character in Area 2.

9.4 Area 4 (GBK/4, Chinese Character Set)

9.4.1 ISO 10646-1 CJK Unified Ideographs. On Area 4 (GBK/4, Chinese Character Set), ISO 10646-1 CJK unified ideographs are sequentially assigned continuously from Area 3, except the characters corresponding to Chinese Character in Area 2.

9.4.2 ISO 10646-1 CJK Compatibility Ideographs

Table 12. ISO 10646-1 CJK Compatibility Ideographs, Area 4, GBK DBCS-Host

Line Number	Graphic	Host GBK Code	PC GBK Code	GCGID
13	礼	CE4D	FE47	U000FA18
14	藤	CE4E	FE48	U000FA1F
15	藕	CE4F	FE49	U000FA20
16	蚌	CE50	FE4A	U000FA21
17	赳	CE51	FE4B	U000FA23
18	返	CE52	FE4C	U000FA24
19	鐸	CE53	FE4D	U000FA27
20	鐸	CE54	FE4E	U000FA28
21	隄	CE55	FE4F	U000FA29

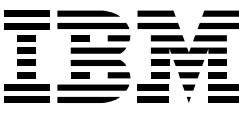
Table 12. ISO 10646-1 CJK Compatibility Ideographs, Area 4, GBK DBCS-Host

Line Number	Graphic	Host GBK Code	PC GBK Code	GCGID
1	郎	CE41	FD9C	U000F92C
2	凉	CE42	FD9D	U000F979
3	季	CE43	FD9E	U000F995
4	裹	CE44	FD9F	U000F9E7
5	隣	CE45	FDA0	U000F9F1
6	兀	CE46	FE40	U000FA0C
7	殼	CE47	FE41	U000FA0D
8	夔	CE48	FE42	U000FA0E
9	塔	CE49	FE43	U000FA0F
10	崎	CE4A	FE44	U000FA11
11	榭	CE4B	FE45	U000FA13
12	榉	CE4C	FE46	U000FA14

9.4.3 Additional Chinese Characters and Radicals/Components

Table 13 (Page 1 of 3). Additional Chinese characters and radicals/components, Area 4, GBK DBCS-Host

Line Number	Graphic	Host GBK Code	PC GBK Code	GCGID
1	厂	CE56	FE50	EL1Y0080
2	ナ	CE57	FE51	EL1Z0080
3	フ	CE58	FE52	EL200080
4	丁	CE59	FE53	EL210080
5	フ	CE5A	FE54	EL220080
6	儻	CE5B	FE55	EL230080
7	侑	CE5C	FE56	EL240080
8	フ	CE5D	FE57	EL250080
9	冂	CE5E	FE58	EL260080
10	マ	CE5F	FE59	EL270080



IBM Simplified Chinese Graphic Character Set, GBK Code

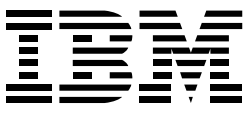
DBCS-Host and DBCS-PC

Table 13 (Page 2 of 3). Additional Chinese characters and radicals/components, Area 4, GBK DBCS-Host

Line Number	Graphic	Host GBK Code	PC GBK Code	GCGID
11	囟	CE60	FE5A	EL280080
12	囟	CE61	FE5B	EL290080
13	囟	CE62	FE5C	EL2A0080
14	灬	CE63	FE5D	EL2B0080
15	小	CE64	FE5E	EL2C0080
16	憫	CE65	FE5F	EL2D0080
17	忼	CE66	FE60	EL2E0080
18	手	CE67	FE61	EL2F0080
19	扌	CE68	FE62	EL2G0080
20	扌	CE69	FE63	EL2H0080
21	扌	CE6A	FE64	EL2I0080
22	扌	CE6B	FE65	EL2J0080
23	扌	CE6C	FE66	EL2K0080
24	扌	CE6D	FE67	EL2L0080
25	扌	CE6E	FE68	EL2M0080
26	殳	CE6F	FE69	EL2N0080
27	灬	CE70	FE6A	EL2O0080
28	生	CE71	FE6B	EL2P0080
29	夂	CE72	FE6C	EL2Q0080
30	灬	CE73	FE6D	EL2R0080
31	正	CE74	FE6E	EL2S0080
32	睪	CE75	FE6F	EL2T0080
33	糝	CE76	FE70	EL2U0080
34	灬	CE77	FE71	EL2V0080
35	紬	CE78	FE72	EL2W0080

Table 13 (Page 2 of 3). Additional Chinese characters and radicals/components, Area 4, GBK DBCS-Host

Line Number	Graphic	Host GBK Code	PC GBK Code	GCGID
36	廾	CE79	FE73	EL2X0080
37	夂	CE7A	FE74	EL2Y0080
38	夂	CE7B	FE75	EL2Z0080
39	戠	CE7C	FE76	EL300080
40	糶	CE7D	FE77	EL310080
41	糶	CE7E	FE78	EL320080
42	耑	CE7F	FE79	EL330080
43	肱	CE81	FE7A	EL350080
44	勞	CE82	FE7B	EL360080
45	禛	CE83	FE7C	EL370080
46	禛	CE84	FE7D	EL380080
47	夂	CE85	FE7E	EL390080
48	訃	CE86	FE80	EL3A0080
49	讖	CE87	FE81	EL3B0080
50	賻	CE88	FE82	EL3C0080
51	賻	CE89	FE83	EL3D0080
52	足	CE8A	FE84	EL3E0080
53	鎬	CE8B	FE85	EL3F0080
54	钅	CE8C	FE86	EL3G0080
55	钅	CE8D	FE87	EL3H0080
56	鎬	CE8E	FE88	EL3I0080
57	鑄	CE8F	FE89	EL3J0080
58	鑄	CE90	FE8A	EL3K0080
59	鑷	CE91	FE8B	EL3L0080
60	閩	CE92	FE8C	EL3M0080



IBM Simplified Chinese Graphic Character Set, GBK Code

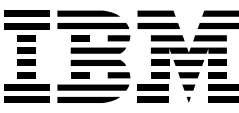
DBCS-Host and DBCS-PC

Table 13 (Page 3 of 3). Additional Chinese characters and radicals/components, Area 4, GBK DBCS-Host

Line Number	Graphic	Host GBK Code	PC GBK Code	GCGID
61	闌	CE93	FE8D	EL3N0080
62	函	CE94	FE8E	EL3O0080
63	凵	CE95	FE8F	EL3P0080
64	卓	CE96	FE90	EL3Q0080
65	𦉳	CE97	FE91	EL3R0080
66	𦉴	CE98	FE92	EL3S0080
67	𦉵	CE99	FE93	EL3T0080
68	𦉶	CE9A	FE94	EL3U0080
69	𦉷	CE9B	FE95	EL3V0080
70	𦉸	CE9C	FE96	EL3W0080
71	𦉹	CE9D	FE97	EL3X0080
72	𦉺	CE9E	FE98	EL3Y0080
73	𦉻	CE9F	FE99	EL3Z0080
74	𦉼	CEA0	FE9A	EL400080
75	𦉽	CEA1	FE9B	EL410080
76	𦉾	CEA2	FE9C	EL420080
77	𦉿	CEA3	FE9D	EL430080
78	𦊀	CEA4	FE9E	EL440080
79	𦊁	CEA5	FE9F	EL450080
80	𦊂	CEA6	FEA0	EL460080

9.5 Area 5 (Extended Non-Chinese Character Set)**Table 14 (Page 1 of 4).** Non-Chinese Character Set, Area 5, GBK DBCS-Host

Line Number	Graphic	Host GBK Code	PC GBK Code	GCGID
1	ˊ	CD41	A840	SB380080
2	ˋ	CD42	A841	SB400080
3	˙	CD43	A842	SD290080 SB410080
4	ˉ	CD44	A843	SS680080
5	—	CD45	A844	SM120080
6	˘	CD46	A846	SD130080
7	‰	CD47	A847	SS640080
8	°F	CD48	A848	SM850080
9	↖	CD49	A849	SM970080
10	↗	CD4A	A84A	SM950080
11	↘	CD4B	A84B	SM990080
12	↙	CD4C	A84C	SM980080
13	/	CD4D	A84D	SP120081
14	└	CD4E	A84E	SA420080
15	|	CD4F	A84F	U0002223
16	≡	CD50	A850	SA700081
17	≡	CD51	A851	SA520082
18	≡	CD52	A852	SA530082
19	△	CD53	A853	SA850080
20	—	CD54	A854	SF430080
21	||	CD55	A855	SF240080
22	┌	CD56	A856	SF510080
23	┐	CD57	A857	SF520080



IBM Simplified Chinese Graphic Character Set, GBK Code

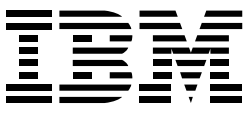
DBCS-Host and DBCS-PC

Table 14 (Page 2 of 4). Non-Chinese Character Set, Area 5, GBK DBCS-Host

Line Number	Graphic	Host GBK Code	PC GBK Code	GCGID
24	┌	CD58	A858	SF390080
25	┐	CD59	A859	SF220080
26	└	CD5A	A85A	SF210080
27	┘	CD5B	A85B	SF250080
28	├	CD5C	A85C	SF500080
29	┤	CD5D	A85D	SF490080
30	└┘	CD5E	A85E	SF380080
31	┌┐	CD5F	A85F	SF280080
32	┐┌	CD60	A860	SF270080
33	┌└	CD61	A861	SF260080
34	└┐	CD62	A862	SF360080
35	└┘	CD63	A863	SF370080
36	├┤	CD64	A864	SF420080
37	┤├	CD65	A865	SF190080
38	├└	CD66	A866	SF200080
39	└├	CD67	A867	SF230080
40	└┘	CD68	A868	SF470080
41	┘└	CD69	A869	SF480080
42	┘├	CD6A	A86A	SF410080
43	┘└	CD6B	A86B	SF450080
44	┘├	CD6C	A86C	SF460080
45	┘└	CD6D	A86D	SF400080
46	┘├	CD6E	A86E	SF540080
47	┘└	CD6F	A86F	SF530080
48	┘├	CD70	A870	SF440080

Table 14 (Page 2 of 4). Non-Chinese Character Set, Area 5, GBK DBCS-Host

Line Number	Graphic	Host GBK Code	PC GBK Code	GCGID
49	┘	CD71	A871	SS160080
50	┘	CD72	A872	SS180080
51	┘	CD73	A873	SS190080
52	┘	CD74	A874	SS170080
53	┘	CD75	A875	SH020080
54	┘	CD76	A876	SH030080
55	✕	CD77	A877	SH040080
56	—	CD78	A878	SF700081
57	—	CD79	A879	SF710081
58	■	CD7A	A87A	SF720081
59	■	CD7B	A87B	SF570080 SF730081
60	■	CD7C	A87C	SF740081
61	■	CD7D	A87D	SF750081
62	■	CD7E	A87E	SF760081
63	■	CD7F	A880	SF610080
64	■	CD81	A881	SF830081
65	■	CD82	A882	SF820081
66	■	CD83	A883	SF810081
67	■	CD84	A884	SF800081
68	■	CD85	A885	SF790081
69	■	CD86	A886	SF780081
70	■	CD87	A887	SF770081
71	■	CD88	A888	SF160080
72	—	CD89	A889	SF670080
73	■	CD8A	A88A	SF650080



IBM Simplified Chinese Graphic Character Set, GBK Code

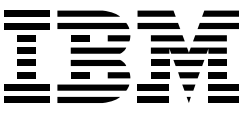
DBCS-Host and DBCS-PC

Table 14 (Page 3 of 4). Non-Chinese Character Set, Area 5, GBK DBCS-Host

Line Number	Graphic	Host GBK Code	PC GBK Code	GCGID
74	▲	CD8B	A88D	SF840080
75	▼	CD8C	A88E	SF850080
76	◆	CD8D	A88F	SF870080
77	◆	CD8E	A890	SF860080
78	⊙	CD8F	A891	U0002609
79	⊕	CD90	A892	SA550080
80	“	CD91	A894	SP210081
81	”	CD92	A895	SP220081
82	|	CD93	A940	NC010080
83	||	CD94	A941	NC020080
84	|||	CD95	A942	NC030080
85	×	CD96	A943	NC040080
86	℄	CD97	A944	NC050080
87	⊥	CD98	A945	NC060080
88	≡	CD99	A946	NC070080
89	≡	CD9A	A947	NC080080
90	⌘	CD9B	A948	NC090080
91	⊕	CD9C	A949	SS780080
92	mg	CD9D	A94A	SS850080
93	kg	CD9E	A94B	SS860080
94	mm	CD9F	A94C	SS810080
95	cm	CDA0	A94D	SS820080
96	km	CDA1	A94E	SS830080
97	m²	CDA2	A94F	SS840080
98	cc	CDA3	A950	SS870080

Table 14 (Page 3 of 4). Non-Chinese Character Set, Area 5, GBK DBCS-Host

Line Number	Graphic	Host GBK Code	PC GBK Code	GCGID
99	KM	CDA4	A951	SS830081
100	ln	CDA5	A952	SS890080
101	log	CDA6	A953	SS880080
102	mil	CDA7	A954	SS800080
103	:	CDA8	A955	SV550080
104	---	CDA9	A968	SV470080
105	---	CDAA	A969	SV490080
106	---	CDAB	A96A	SV500080
107	---	CDAC	A96B	SV510080
108	---	CDAD	A96C	SV120080
109	---	CDAE	A96D	SV480080
110	---	CDAF	A96E	SV460080
111	,	CDB0	A96F	SP081080
112	,	CDB1	A970	SP081084
113	.	CDB2	A971	SP111080
114	;	CDB3	A972	SP141080
115	:	CDB4	A973	SP131080
116	?	CDB5	A974	SP151080
117	!	CDB6	A975	SP021080
118	(	CDB7	A976	SP061080
119	)	CDB8	A977	SP071080
120	{	CDB9	A978	SM111080
121	}	CDBA	A979	SM141080
122	(	CDBB	A97A	SP061081
123	)	CDBC	A97B	SP071081

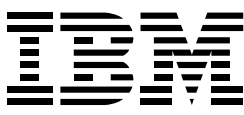


IBM Simplified Chinese Graphic Character Set, GBK Code

DBCS-Host and DBCS-PC

Table 14 (Page 4 of 4). Non-Chinese Character Set, Area 5, GBK DBCS-Host

Line Number	Graphic	Host GBK Code	PC GBK Code	GCGID
124	#	CDBD	A97C	SM011080
125	&	CDBE	A97D	SM031080
126	*	CDBF	A97E	SM04008A
127	+	CDC0	A980	SA011080
128	-	CDC1	A981	SA001080
129	<	CDC2	A982	SA031080
130	>	CDC3	A983	SA051080
131	=	CDC4	A984	SA041080
132	\	CDC5	A985	SM071080
133	\$	CDC6	A986	SC031080
134	%	CDC7	A987	SM021080
135	@	CDC8	A988	SM051080
136	☎	CDC9	A989	SI010080
137	☎	CDCA	A98A	SI020080
138	☎	CDCB	A98B	SI030080
139	☎	CDCC	A98C	SI040080
140	☎	CDCD	A98D	SI050080
141	☎	CDCE	A98E	SI060080
142	☎	CDCF	A98F	SI070080
143	☎	CDD0	A990	SI080080
144	☎	CDD1	A991	SI090080
145	☎	CDD2	A992	SI100080
146	☎	CDD3	A993	SI110080
147	☎	CDD4	A994	SI120080
148	☎	CDD5	A995	SI130080

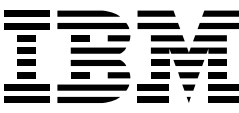
**IBM Simplified Chinese Graphic Character Set, GBK Code**

DBCS-Host and DBCS-PC

9.6 The Code Correspondence for IBM Selected Characters

The following table shows the code correspondence for IBM selected characters between GBK DBCS-PC, GBK DBCS-Host and other S-CH code pages; *DBCS-PC, DBCS-Host and DBCS-EUC.*

Line Number	Graphic	DBCS-PC GB code	DBCS-Host and GBK DBCS-Host	EUC Code	DBCS-PC GBK Code	GBK Area	GCGID
1	i	8CE0	41B1	FEE0	A2A1	GBK/1	NR010080
2	ii	8CE1	41B2	FEE1	A2A2	GBK/1	NR020080
3	iii	8CE2	41B3	FEE2	A2A3	GBK/1	NR030080
4	iv	8CE3	41B4	FEE3	A2A4	GBK/1	NR040080
5	v	8CE4	41B5	FEE4	A2A5	GBK/1	NR050080
6	vi	8CE5	41B6	FEE5	A2A6	GBK/1	NR060080
7	vii	8CE6	41B7	FEE6	A2A7	GBK/1	NR070080
8	viii	8CE7	41B8	FEE7	A2A8	GBK/1	NR080080
9	ix	8CE8	41B9	FEE8	A2A9	GBK/1	NR090080
10	x	8CE9	41BA	FEE9	A2AA	GBK/1	NR100080
11	冫	8CEA	425F	FEEA	A956	GBK/5	SM660080
12	丨	8CEB	426A	FEEB	A957	GBK/5	SM650080
13	丶	8CEC	427D	FEEC	A846 ^(*)	GBK/5	SP050080
14	一	8CED	4358	FEED	A960	GBK/5	JX700080
15	¥	8CEE	435B	FEEE	A3A4 ^(*)	GBK/1	SC050080
16	丶	8CEF	43BE	FEED	A961	GBK/5	JX710080
17	°	8CF0	43BF	FEF0	A962	GBK/5	JX720080
18	丿	8CF1	43DC	FEF1	A963	GBK/5	JQ750080
19	丶	8CF2	43DD	FEF2	A964	GBK/5	JQ760080
20	一	8CF3	445A	FEF3	A95C	GBK/5	SP320080
21	全	8CF4	445C	FEF4	D9DA ^(*)	GBK/2	SS760080
22	ノ	8CF5	445E	FEF5	A965	GBK/5	SS720080
23	○	8CF6	445F	FEF6	A996	GBK/5	ND100087

**IBM Simplified Chinese Graphic Character Set, GBK Code**

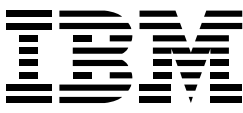
DBCS-Host and DBCS-PC

Table 15 (Page 2 of 2). The code correspondence for IBM selected characters

Line Number	Graphic	DBCS-PC GB code	DBCS-Host and GBK DBCS-Host	EUC Code	DBCS-PC GBK Code	GBK Area	GCGID
24	≡	8CF7	446C	FEF7	A893	GBK/5	SS730080
25	株	8CF8	446D	FEF8	A95A	GBK/5	SS740080
26	TEL	8CF9	446F	FEF9	A959	GBK/5	SS710080
27	••	8CFA	447E	FEFA	A845	GBK/5	SV430080
28	↘	8CFB	44DC	FEFB	A966	GBK/5	RQ750080
29	↗	8CFC	44DD	FEFC	A967	GBK/5	RQ760080
30	▽	8CFD	44EB	FEFD	A88C	GBK/5	SM740080
31	▼	8CFE	44EC	FEFE	A88B	GBK/5	SV040080

Notes:

- 1) There is no same glyph in GBK. This is similar glyph.
- 2) GB 2312-80 has the corresponding character for this. Therefore, DBCS-PC, DBCS-Host, GBK DBCS-Host and EUC contain this character other than IBM selected character. Both of GB 2312-80 character and IBM selected character are mapped to this GBK character. It is 2 to 1 code correspondence.



IBM Simplified Chinese Graphic Character Set, GBK CodeDBCS-Host and DBCS-PC

Supplementary Information**10. Definition of Terms**

The following terms are defined for the purposes of this document.

10.1 Byte

A unit of string consisting of 8 bits.

10.2 Code

A system of bit-patterns to which specific graphic or control meanings have been assigned.

10.3 Code Page

A specification of *code points* for each *graphic character* in a set, or in a collection of *graphic character sets*. Within a given *code page*, a *code point* can have only one specific meaning.

10.4 Code Page Global Identifier (CPGID)

A 5-digit decimal identifier assigned to a *code page*. See C-H 3-3220-050.

10.5 Code Point

One of the bit-patterns specified by a *code*.

10.6 Coded Graphic Character

A *graphic character* with its assigned *code point*.

10.7 Coded Graphic Character Set

A set of *graphic characters* with their assigned *code points*.

10.8 Coded Graphic Character Set Global Identifier (CGCSGID)

A 10-digit decimal identifier consisting of the concatenation of a *graphic character set global identifier (GCSGID)* and a *code page global identifier (CPGID)*. The *CGCSGID* is also represented as the concatenation of the hexadecimal representations of the *GCSGID* and *CPGID*. See C-H 3-3220-050.

10.9 DBCS

Abbreviation of a *Double-Byte Character Set*. It is a *graphic character set* in which each character is represented by two *bytes*. See C-S 3-3220-102 for detail.

10.10 DBCS-EUC

A *DBCS code page* which is mainly used with Extended UNIX Code (EUC) encoding scheme.

10.11 DBCS-Host

A *DBCS code page* which is mainly used in conjunction with *EBCDIC*.

10.12 DBCS-PC

A *DBCS code page* which is mainly used in conjunction with *PC code*.

10.13 EBCDIC

Abbreviation of Extended BCD Interchange Code which is defined in C-S 3-3220-002, *EBCDIC*.

10.14 Graphic Character

A graphic symbol character, such as a numeric, alphabetic, special or Kanji.

10.15 Graphic Character Global Identifier (GCGID)

An up to eight-character identifier assigned to each *graphic character*. See C-H 3-3220-055.

10.16 Graphic Character Set

A set of *graphic characters*, treated as an entity.

10.17 Graphic Character Set Global Identifier (GCSGID)

A 5-digit decimal identifier assigned to a *graphic character set*. See C-H 3-3220-050.

10.18 GBK

Chinese Internal Code Specification which is used for Chinese information processing on large character set.

10.19 PC Code

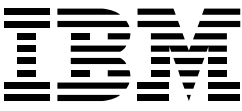
A single-byte *code page* which is primarily used in the personal computer environment. *PC Code* is based on ISO 646.

10.20 Product

A hardware or software unit that is individually packaged, that is marketable, and to which a type number/program number or equivalence has been assigned.

10.21 Registered Code Page

A *code page* that has been registered and assigned a *CPGID*.

**IBM Simplified Chinese Graphic Character Set, GBK Code**DBCS-Host and DBCS-PC

10.22 Registered Coded Graphic Character Set

A *coded graphic character set*, whose *graphic character set* and *code page* have both been registered.

10.23 Unrestricted Code Page

A *registered code page* that has been approved by all affected operating units, and has been placed in the category of “*unrestricted*”.

10.24 User Definable Character

A *graphic character* whose graphic shape is definable by users.

10.25 Ward

A section of a *Double-Byte Character Set* where the first *bytes* of all of the *code points* belonging to it are the same. A *ward* has a unique numerical value which represents the first *byte* of the *code point* belonging to that *ward*.

11. Graphic Character Representation

Although character graphics are inserted as sample graphics of the *coded graphic characters* in the specification tables a *graphic character* is independent of actual size or shape in which it may appear.

This specification does not restrict the style of font design. However, it is recommended that the font design of *graphic characters* for *products* follow the graphic representation in this document as close as possible to avoid confusion in identification of *graphic characters*. On questions about the font design to be implemented, the Standards Project Authority for DBCS (SIRS 029) may be consulted.



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