

ISO/IEC JTC 1/SC 2
CODED CHARACTER SETS
SECRETARIAT: JAPAN (JISC)

DOC TYPE: Working Draft

TITLE: WD 10646-2, Universal Multiple-Octet Coded Character Set (UCS) -- Part 2: Secondary Multilingual Plane for scripts and symbols Supplementary Plane for CJK Unified Ideographs General Purpose Plane

SOURCE: ISO/IEC JTC 1/SC 2/WG 2

PROJECT: JTC 1.02.18.02

STATUS: In accordance with Resolution M09.12 adopted at the 9th Plenary meeting of SC 2 held in Fukuoka, Japan, 1999-03-16, this document is circulated to the SC 2 members for review and comments. Please submit comments to the SC 2 Secretariat by 1999-06-15. Comments submitted will be forwarded to the Project Editor for preparation of a revised text.

ACTION ID: COM

DUE DATE: 1999-06-15

DISTRIBUTION: P, O and L Members of ISO/IEC JTC 1/SC 2
WG Conveners and Secretariats
Secretariat, ISO/IEC JTC 1
ISO/IEC ITTF

NO. OF PAGES: 30

ACCESS LEVEL: Open

WEB ISSUE #: 048

Proposed ISO/IEC International Standard
Working Draft 10646-2

ISO/IEC WD 10646-2

1999-03-24

**Information technology — Universal Multiple-
Octet Coded Character Set (UCS) —**

Part 2:

Secondary Multilingual Plane for scripts and symbols

Supplementary Plane for CJK Unified Ideographs

General Purpose Plane

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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 or 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 JTC1. 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 Standards ISO/IEC 10646-1 and 10646-2 were prepared by Joint Technical Committee ISO/IEC JTC1, *Information technology*.

ISO/IEC 10646 consists of the following part, under the general title *Information technology - Universal Multiple-Octet Coded Character Set (UCS)*:

- *Part 1: Architecture and Basic Multilingual Plane*
- *Part 2: Secondary Multilingual Plane for scripts and symbols, Supplementary Plane for CJK Unified Ideographs, General Purpose Plane*

Additional parts will specify other planes.

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Information technology — Universal Multiple-Octet Coded Character Set (UCS) —

Contents

Part 2:

Secondary Multilingual Plane for scripts and symbols

Supplementary Plane for CJK Unified Ideographs

General Purpose Plane

1 Scope

ISO/IEC 10646 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 languages of the world as well as additional symbols.

ISO/IEC 10646 Part 1 specifies the overall architecture and the Basic Multilingual Plane (BMP) of the UCS.

This second part:

- specifies the Secondary Multilingual Plane for scripts and symbols (SMP) of the UCS and defines a set of graphic characters used in scripts not covered by the plane specified below (SIP) and the BMP;
- specifies the Supplementary Plane for CJK Unified Ideographs (SIP) of the UCS and defines a set of graphic characters that are used in East Asia. These are defined as Chinese/Japanese/Korean (CJK) unified ideographs (unified East Asian ideographs);
- specifies the General Purpose Plane (GPP) and defines a set of special purpose use characters.
- specifies the names for graphic characters of these planes, and the coded representation using the four-octet (32-bit) canonical form of the UCS.
- Graphic characters that are already encoded in the Part 1 are not repeated in these supplementary planes. In addition, any character is assigned to only one code position within the set of supplementary planes specified in this Part 2.

2 Conformance

The Conformance clauses of Part 1 also apply to this part of ISO/IEC 10646.

3 Normative references

See Part 1.

4 Coding of characters

According to clause 6.2 of Part 1, in the canonical form of the coded character set, each character within the entire coded character set is represented by a sequence of four octets, each represented by two hexadecimal digits.

When referring to characters within planes 01 to 15, an abbreviated form may be used. In this

notation, the leading hexadecimal three digits may be omitted. For example, the five-digit value 11100 corresponds to the canonical form 0001 1100 and the corresponding coded character is part of plane 01. When referring to characters within an identified plane, the leading four digits may also be omitted.

Editor's Note: This new coding format doesn't cover the last plane (16) reachable through UTF-16 as it would require six digits instead of the five-digit notation introduced here. This is considered acceptable, as the plane 16 is a Private Use plane and should not require numeric referencing in this document. The alternative is to create a six-digit coding format instead of five-digit.

5 Definitions

In addition to the definitions specified by Part 1, the following definitions apply:

5.1 Secondary Multilingual Plane for scripts and symbols (SMP)

Plane 01 of Group 00.

5.2 Supplementary Plane for CJK Unified Ideographs (SIP)

Plane 02 of Group 00.

5.3 General Purpose Plane (GPP)

Plane 14 of Group 00.

6 Secondary Multilingual Plane for scripts and symbols

The Plane 01 of Group 00 shall be the Secondary Multilingual Plane for scripts and symbols (SMP). Unlike the Basic Multilingual Plane (BMP), the SMP cannot be used as a two-octet coded character set.

As a special plane is reserved for CJK Unified Ideographs, the SMP shall not be used to encode them. The main purpose of the SMP is to specify a set of coded graphic characters used in all other significant scripts of the world (mostly extinct) which are not already encoded in the BMP.

NOTE - The following decomposition of the SMP has been proposed:

- Alphabetic scripts,
- Hieroglyphic, ideographic and miscellaneous syllabaries
- CJK ideographic derived scripts
- Newly invented scripts
- Symbol sets

7 Supplementary Plane for CJK Unified Ideographs

The Plane 02 of Group 00 shall be the Supplementary Plane for CJK Unified Ideographs (SIP), and unlike the BMP, the SIP cannot be used as a two-octet coded character set.

The SIP is used for CJK unified ideographs (unified East Asian ideographs) that are not encoded in the BMP. The procedure for the unification and arrangement of CJK Ideographs is described in Part 1 Annex T.

8 General Purpose Plane

The Plane 14 of Group 0 shall be the General Purpose Plane (GPP). The GPP is used for special purpose use characters. These characters may not have a visual representation and may not have printable graphic symbols.

NOTE - For example, this plane includes the Tag Characters.

9 Planes content overview

9.1 Secondary Multilingual Plane for scripts and symbols

An overview of the Secondary Multilingual Plane for scripts and symbols is shown in figure 1. Detailed code tables and lists of character names for the planes are shown on the following pages.

Editor's Note: The Deseret repertoire was accepted by resolution WG2 M32.26. The Byzantine Musical Symbols repertoire was accepted by resolution WG2 M33.13. The Etruscan, Gothic and Western Musical Symbols repertoires were accepted by resolution WG2 M34.14.

Row-octet

00			
..			
03	Etruscan	Gothic	
04	Deseret		
..			
D0	Byzantine Musical Symbols		
D1	Western Musical Symbols		
..			
FF			

= reserved for future standardization
NOTE: Vertical boundaries within rows are indicated in approximate positions only.

Figure 1 – Overview of the Secondary Multilingual Plane for scripts and symbols

TABLE 1 – Row 03: ETRUSCAN

	030	031	032
0	A	┐	•
1	Ɓ	M	I
2	<	Q	V
3	▷	P	X
4	Ǝ	Σ	↑
5	F	T	Ж
6	I	Y	⊖
7	⊞	+	⊕
8	⊙	⊖	⊗
9	I	Υ	⊘
A	K	8	
B	L	9	
C	ℳ	b	
D	N	†	
E	⊞	∇	
F	O		

G = 00
P = 01

TABLE 1 – Row 03: ETRUSCAN

hex	Name	hex	Name
00	ETRUSCAN LETTER A		
01	ETRUSCAN LETTER BE		
02	ETRUSCAN LETTER KE		
03	ETRUSCAN LETTER DE		
04	ETRUSCAN LETTER E		
05	ETRUSCAN LETTER VE		
06	ETRUSCAN LETTER ZE		
07	ETRUSCAN LETTER HE		
08	ETRUSCAN LETTER THE		
09	ETRUSCAN LETTER I		
0A	ETRUSCAN LETTER KA		
0B	ETRUSCAN LETTER EL		
0C	ETRUSCAN LETTER EM		
0D	ETRUSCAN LETTER EN		
0E	ETRUSCAN LETTER ESH		
0F	ETRUSCAN LETTER O (Faliscan)		
10	ETRUSCAN LETTER PE		
11	ETRUSCAN LETTER SHE		
12	ETRUSCAN LETTER KU		
13	ETRUSCAN LETTER ER		
14	ETRUSCAN LETTER ES		
15	ETRUSCAN LETTER TE		
16	ETRUSCAN LETTER U		
17	ETRUSCAN LETTER EKS (Faliscan)		
18	ETRUSCAN LETTER PHE		
19	ETRUSCAN LETTER KHE		
1A	ETRUSCAN LETTER EF		
1B	ETRUSCAN LETTER ERS (Umbrian)		
1C	ETRUSCAN LETTER CHE (Umbrian)		
1D	ETRUSCAN LETTER II (Oscan)		
1E	ETRUSCAN LETTER UU (Oscan)		
1F	(This position shall not be used)		
20	ETRUSCAN WORD SEPARATOR		
21	ETRUSCAN NUMERAL ONE		
22	ETRUSCAN NUMERAL FIVE		
23	ETRUSCAN NUMERAL TEN		
24	ETRUSCAN NUMERAL FIFTY		
25	ETRUSCAN NUMERAL ONE HUNDRED		
26	ETRUSCAN NUMERAL ALTERNATE ONE HUNDRED		
27	ETRUSCAN NUMERAL ONE THOUSAND		
28	ETRUSCAN NUMERAL ONE HUNDRED OR ONE THOUSAND		
29	ETRUSCAN NUMERAL ONE THOUSAND OR TEN THOUSAND		
2A	(This position shall not be used)		
2B	(This position shall not be used)		
2C	(This position shall not be used)		
2D	(This position shall not be used)		
2E	(This position shall not be used)		
2F	(This position shall not be used)		

Group 00

Plane 01

Row 03

TABLE 2 – Row 03: GOTHIC

	033	034
0	ᐱ	ᐱ
1	ᐸ	ᐱ
2	ᐸ	ᐸ
3	ᐸ	ᐸ
4	ᐸ	ᐸ
5	ᐸ	ᐸ
6	ᐸ	ᐸ
7	ᐸ	ᐸ
8	ᐸ	ᐸ
9	ᐸ	ᐸ
A	ᐸ	ᐸ
B	ᐸ	ᐸ
C	ᐸ	
D	ᐸ	
E	ᐸ	
F	ᐸ	

G = 00
P = 01

TABLE 2 – Row 03: GOTHIC

hex	Name	hex	Name
30	GOTHIC LETTER AHSÄ		
31	GOTHIC LETTER BAIRKAN		
32	GOTHIC LETTER GIBÄ		
33	GOTHIC LETTER DAGS		
34	GOTHIC LETTER AIHVUS		
35	GOTHIC LETTER QAIRTHRA		
36	GOTHIC LETTER IUJA		
37	GOTHIC LETTER HAGL		
38	GOTHIC LETTER THIUTH		
39	GOTHIC LETTER EIS		
3A	GOTHIC LETTER EIS WITH DIAERESIS		
3B	GOTHIC LETTER KUSMA		
3C	GOTHIC LETTER LAGUS		
3D	GOTHIC LETTER MANNA		
3E	GOTHIC LETTER NAUTHS		
3F	GOTHIC LETTER JER		
40	GOTHIC LETTER URUS		
41	GOTHIC LETTER PAIRTHRA		
42	GOTHIC LETTER NINETY		
43	GOTHIC LETTER RAIDÄ		
44	GOTHIC LETTER SAUJL		
45	GOTHIC LETTER TEIWS		
46	GOTHIC LETTER WINJA		
47	GOTHIC LETTER FAIHU		
48	GOTHIC LETTER IGGWS		
49	GOTHIC LETTER HWAIR		
4A	GOTHIC LETTER OTHAL		
4B	GOTHIC LETTER NINE HUNDRED		
4C	(This position shall not be used)		
4D	(This position shall not be used)		
4E	(This position shall not be used)		
4F	(This position shall not be used)		

Group 00

Plane 01

Row 03

TABLE 3 – Row 04: DESERET

	040	041	042	043	044
0	᠔	᠕	᠖	᠗	᠘
1	᠑	᠒	᠓	᠔	᠕
2	᠖	᠗	᠘	᠙	᠐
3	᠑	᠒	᠓	᠔	᠕
4	᠖	᠗	᠘	᠙	᠐
5	᠑	᠒	᠓	᠔	᠕
6	᠖	᠗		᠙	᠐
7	᠑	᠒		᠔	᠕
8	᠗	᠘	᠔	᠕	᠖
9	᠙	᠐	᠑	᠒	᠓
A	᠒	᠓	᠔	᠕	᠖
B	᠔	᠕	᠖	᠗	᠘
C	᠕	᠖	᠗	᠘	᠙
D	᠖	᠗	᠘	᠙	᠐
E	᠗	᠘	᠙	᠐	
F	᠙	᠐	᠑	᠒	

G = 00
P = 01

TABLE 3 – Row 04: DESERET

hex	Name	hex	Name
00	DESERET CAPITAL LETTER LONG I		
01	DESERET CAPITAL LETTER LONG E		
02	DESERET CAPITAL LETTER LONG A		
03	DESERET CAPITAL LETTER LONG AH		
04	DESERET CAPITAL LETTER LONG O		
05	DESERET CAPITAL LETTER LONG OO		
06	DESERET CAPITAL LETTER SHORT I		
07	DESERET CAPITAL LETTER SHORT E		
08	DESERET CAPITAL LETTER SHORT A		
09	DESERET CAPITAL LETTER SHORT AH		
0A	DESERET CAPITAL LETTER SHORT O		
0B	DESERET CAPITAL LETTER SHORT OO		
0C	DESERET CAPITAL LETTER AY		
0D	DESERET CAPITAL LETTER OW		
0E	DESERET CAPITAL LETTER WU		
0F	DESERET CAPITAL LETTER YEE		
10	DESERET CAPITAL LETTER H		
11	DESERET CAPITAL LETTER PEE		
12	DESERET CAPITAL LETTER BEE		
13	DESERET CAPITAL LETTER TEE		
14	DESERET CAPITAL LETTER DEE		
15	DESERET CAPITAL LETTER CHEE		
16	DESERET CAPITAL LETTER JEE		
17	DESERET CAPITAL LETTER KAY		
18	DESERET CAPITAL LETTER GAY		
19	DESERET CAPITAL LETTER EF		
1A	DESERET CAPITAL LETTER VEE		
1B	DESERET CAPITAL LETTER ETH		
1C	DESERET CAPITAL LETTER THEE		
1D	DESERET CAPITAL LETTER ES		
1E	DESERET CAPITAL LETTER ZEE		
1F	DESERET CAPITAL LETTER ESH		
20	DESERET CAPITAL LETTER ZHEE		
21	DESERET CAPITAL LETTER ER		
22	DESERET CAPITAL LETTER EL		
23	DESERET CAPITAL LETTER EM		
24	DESERET CAPITAL LETTER EN		
25	DESERET CAPITAL LETTER ENG		
26	(This position shall not be used)		
27	(This position shall not be used)		
28	DESERET SMALL LETTER LONG I		
29	DESERET SMALL LETTER LONG E		
2A	DESERET SMALL LETTER LONG A		
2B	DESERET SMALL LETTER LONG AH		
2C	DESERET SMALL LETTER LONG O		
2D	DESERET SMALL LETTER LONG OO		
2E	DESERET SMALL LETTER SHORT I		
2F	DESERET SMALL LETTER SHORT E		
30	DESERET SMALL LETTER SHORT A		
31	DESERET SMALL LETTER SHORT AH		
32	DESERET SMALL LETTER SHORT O		
33	DESERET SMALL LETTER SHORT OO		
34	DESERET SMALL LETTER AY		
35	DESERET SMALL LETTER OW		
36	DESERET SMALL LETTER WU		
37	DESERET SMALL LETTER YEE		
38	DESERET SMALL LETTER H		
39	DESERET SMALL LETTER PEE		
3A	DESERET SMALL LETTER BEE		
3B	DESERET SMALL LETTER TEE		
3C	DESERET SMALL LETTER DEE		
3D	DESERET SMALL LETTER CHEE		
3E	DESERET SMALL LETTER JEE		
3F	DESERET SMALL LETTER KAY		
40	DESERET SMALL LETTER GAY		
41	DESERET SMALL LETTER EF		
42	DESERET SMALL LETTER VEE		
43	DESERET SMALL LETTER ETH		
44	DESERET SMALL LETTER THEE		
45	DESERET SMALL LETTER ES		
46	DESERET SMALL LETTER ZEE		
47	DESERET SMALL LETTER ESH		
48	DESERET SMALL LETTER ZHEE		
49	DESERET SMALL LETTER ER		
4A	DESERET SMALL LETTER EL		
4B	DESERET SMALL LETTER EM		
4C	DESERET SMALL LETTER EN		
4D	DESERET SMALL LETTER ENG		
4E	(This position shall not be used)		
4F	(This position shall not be used)		

Group 00

Plane 01

Row 04

TABLE 4 – Row D0: BYZANTINE MUSICAL SYMBOLS

	D00	D01	D02	D03	D04	D05	D06	D07
0								
1								
2								
3								
4								
5								
6								
7								
8								
9								
A								
B								
C								
D								
E								
F								

G = 00
P = 01

TABLE 4 – Row D0: BYZANTINE MUSICAL SYMBOLS

hex	Name	hex	Name
00	GREEK BYZANTINE MUSIC PSILI SIGN	58	GREEK BYZANTINE MUSIC VAREIA LATE SIGN
01	GREEK BYZANTINE MUSIC DASEIA SIGN	59	GREEK BYZANTINE MUSIC PIASMA LATE SIGN
02	GREEK BYZANTINE MUSIC PERISPOMENI SIGN	5A	GREEK BYZANTINE MUSIC PSIFISTON LATE SIGN
03	GREEK BYZANTINE MUSIC OXEIA EK FONITIKON SIGN	5B	GREEK BYZANTINE MUSIC OMALON SIGN
04	GREEK BYZANTINE MUSIC OXEIA DIPLI SIGN	5C	GREEK BYZANTINE MUSIC ANTIKENOMA SIGN
05	GREEK BYZANTINE MUSIC VAREIA EK FONITIKON SIGN	5D	GREEK BYZANTINE MUSIC LYGISMA SIGN
06	GREEK BYZANTINE MUSIC VAREIA DIPLI SIGN	5E	GREEK BYZANTINE MUSIC PARAKLITIKI LATE SIGN
07	GREEK BYZANTINE MUSIC KATHISTI SIGN	5F	GREEK BYZANTINE MUSIC PARAKALESMA LATE SIGN
08	GREEK BYZANTINE MUSIC SYRMATIKI SIGN	60	GREEK BYZANTINE MUSIC ETERON PARAKALESMA SIGN
09	GREEK BYZANTINE MUSIC PARAKLITIKI SIGN	61	GREEK BYZANTINE MUSIC KYLISMA SIGN
0A	GREEK BYZANTINE MUSIC YPOKRISIS SIGN	62	GREEK BYZANTINE MUSIC ANTIKENOKYLISMA SIGN
0B	GREEK BYZANTINE MUSIC YPOKRISIS DIPLI SIGN	63	GREEK BYZANTINE MUSIC TROMIKON LATE SIGN
0C	GREEK BYZANTINE MUSIC KREMASTI SIGN	64	GREEK BYZANTINE MUSIC EKSTREPTON SIGN
0D	GREEK BYZANTINE MUSIC APESO EK FONITIKON SIGN	65	GREEK BYZANTINE MUSIC SYNAGMA LATE SIGN
0E	GREEK BYZANTINE MUSIC EXO EK FONITIKON SIGN	66	GREEK BYZANTINE MUSIC SYRMA SIGN
0F	GREEK BYZANTINE MUSIC TELEIA SIGN	67	GREEK BYZANTINE MUSIC CHOREVMA LATE SIGN
10	GREEK BYZANTINE MUSIC ISON KENTIMATA SIGN	68	GREEK BYZANTINE MUSIC EPEGERMA SIGN
11	GREEK BYZANTINE MUSIC APOSTROFOS SIGN	69	GREEK BYZANTINE MUSIC SEISMA LATE SIGN
12	GREEK BYZANTINE MUSIC APOSTROFOS DIPLI SIGN	6A	GREEK BYZANTINE MUSIC XIRON KLASMA SIGN
13	GREEK BYZANTINE MUSIC SYNEVMA SIGN	6B	GREEK BYZANTINE MUSIC TROMIKOPSIFISTON SIGN
14	GREEK BYZANTINE MUSIC THITA SIGN	6C	GREEK BYZANTINE MUSIC PSIFISTOLYGISMA SIGN
15	GREEK BYZANTINE MUSIC OLIGON ARCHAIC SIGN	6D	GREEK BYZANTINE MUSIC TROMIKOLYGISMA SIGN
16	GREEK BYZANTINE MUSIC GORGON ARCHAIC SIGN	6E	GREEK BYZANTINE MUSIC TROMIKOPARAKALESMA SIGN
17	GREEK BYZANTINE MUSIC PSILON SIGN	6F	GREEK BYZANTINE MUSIC PSIFISTOPARAKALESMA SIGN
18	GREEK BYZANTINE MUSIC CHAMILON SIGN	70	GREEK BYZANTINE MUSIC TROMIKOSYNAGMA SIGN
19	GREEK BYZANTINE MUSIC VATHY SIGN	71	GREEK BYZANTINE MUSIC PSIFISTOSYNAGMA SIGN
1A	GREEK BYZANTINE MUSIC ISON ARCHAIC SIGN	72	GREEK BYZANTINE MUSIC GORGOSYNTHETON SIGN
1B	GREEK BYZANTINE MUSIC KENTIMA ARCHAIC SIGN	73	GREEK BYZANTINE MUSIC ARGOSYNTHETON SIGN
1C	GREEK BYZANTINE MUSIC KENTIMATA ARCHAIC SIGN	74	GREEK BYZANTINE MUSIC ETERON ARGOSYNTHETON SIGN
1D	GREEK BYZANTINE MUSIC SAXIMATA SIGN	75	GREEK BYZANTINE MUSIC OYRANISMA LATE SIGN
1E	GREEK BYZANTINE MUSIC PARICHON SIGN	76	GREEK BYZANTINE MUSIC THEMATISMOS ESO SIGN
1F	GREEK BYZANTINE MUSIC STAVROS APODEXIA SIGN	77	GREEK BYZANTINE MUSIC THEMATISMOS EXO SIGN
20	GREEK BYZANTINE MUSIC OXEIAI ARCHAIC SIGN	78	GREEK BYZANTINE MUSIC THEMA APLOUN SIGN
21	GREEK BYZANTINE MUSIC VAREIAI ARCHAIC SIGN	79	GREEK BYZANTINE MUSIC THES KAI APOTHES SIGN
22	GREEK BYZANTINE MUSIC APODERMA ARCHAIC SIGN	7A	GREEK BYZANTINE MUSIC KATAVASMA SIGN
23	GREEK BYZANTINE MUSIC APOTHEMA SIGN	7B	GREEK BYZANTINE MUSIC ENDOFONON SIGN
24	GREEK BYZANTINE MUSIC KLASMA SIGN	7C	GREEK BYZANTINE MUSIC YFEN KATO SIGN
25	GREEK BYZANTINE MUSIC REVMA SIGN	7D	GREEK BYZANTINE MUSIC YFEN ANO SIGN
26	GREEK BYZANTINE MUSIC PIASMA ARCHAIC SIGN	7E	GREEK BYZANTINE MUSIC STAVROS SIGN
27	GREEK BYZANTINE MUSIC TINAGMA SIGN	7F	GREEK BYZANTINE MUSIC KLASMA ANO SIGN
28	GREEK BYZANTINE MUSIC ANATRICHISMA SIGN		
29	GREEK BYZANTINE MUSIC SEISMA SIGN		
2A	GREEK BYZANTINE MUSIC SYNAGMA ARCHAIC SIGN		
2B	GREEK BYZANTINE MUSIC SYNAGMA METASTAVROU SIGN		
2C	GREEK BYZANTINE MUSIC OYRANISMA ARCHAIC SIGN		
2D	GREEK BYZANTINE MUSIC THEMA SIGN		
2E	GREEK BYZANTINE MUSIC LEMOI SIGN		
2F	GREEK BYZANTINE MUSIC DYO SIGN		
30	GREEK BYZANTINE MUSIC TRIA SIGN		
31	GREEK BYZANTINE MUSIC TESSERA SIGN		
32	GREEK BYZANTINE MUSIC KRATIMATA SIGN		
33	GREEK BYZANTINE MUSIC APESO EXO LATE SIGN		
34	GREEK BYZANTINE MUSIC FTHORA ARCHAIC SIGN		
35	GREEK BYZANTINE MUSIC IMIFTHORA SIGN		
36	GREEK BYZANTINE MUSIC TROMIKON ARCHAIC SIGN		
37	GREEK BYZANTINE MUSIC KATAVA TROMIKON SIGN		
38	GREEK BYZANTINE MUSIC PELASTON SIGN		
39	GREEK BYZANTINE MUSIC PSIFISTON SIGN		
3A	GREEK BYZANTINE MUSIC KONTEVMA SIGN		
3B	GREEK BYZANTINE MUSIC CHOREVMA ARCHAIC SIGN		
3C	GREEK BYZANTINE MUSIC RAPISMA SIGN		
3D	GREEK BYZANTINE MUSIC PARAKALESMA ARCHAIC SIGN		
3E	GREEK BYZANTINE MUSIC PARAKLITIKI ARCHAIC SIGN		
3F	GREEK BYZANTINE MUSIC ICHADIN SIGN		
40	GREEK BYZANTINE MUSIC NANA SIGN		
41	GREEK BYZANTINE MUSIC PETASMA SIGN		
42	GREEK BYZANTINE MUSIC KONTEVMA ALLO SIGN		
43	GREEK BYZANTINE MUSIC TROMIKON ALLO SIGN		
44	GREEK BYZANTINE MUSIC STRAGGISMATA SIGN		
45	GREEK BYZANTINE MUSIC GRONTHISMATA SIGN		
46	GREEK BYZANTINE MUSIC ISON LATE SIGN		
47	GREEK BYZANTINE MUSIC OLIGON LATE SIGN		
48	GREEK BYZANTINE MUSIC OXEIA LATE SIGN		
49	GREEK BYZANTINE MUSIC PETASTI SIGN		
4A	GREEK BYZANTINE MUSIC KOUFISMA SIGN		
4B	GREEK BYZANTINE MUSIC PETASTOKOUFISMA SIGN		
4C	GREEK BYZANTINE MUSIC KRATIMOKOUFISMA SIGN		
4D	GREEK BYZANTINE MUSIC PELASTON LATE SIGN		
4E	GREEK BYZANTINE MUSIC KENTIMATA LATE ANO SIGN		
4F	GREEK BYZANTINE MUSIC KENTIMA LATE ANO SIGN		
50	GREEK BYZANTINE MUSIC YPSILI SIGN		
51	GREEK BYZANTINE MUSIC APOSTROFOS LATE SIGN		
52	GREEK BYZANTINE MUSIC APOSTROFOI SYNDESMOS LATE SIGN		
53	GREEK BYZANTINE MUSIC YPORROI SIGN		
54	GREEK BYZANTINE MUSIC KRATIMOYPORROON SIGN		
55	GREEK BYZANTINE MUSIC ELAFRON SIGN		
56	GREEK BYZANTINE MUSIC CHAMILI SIGN		
57	GREEK BYZANTINE MUSIC MIKRON ISON SIGN		

TABLE 5 – Row D0: BYZANTINE MUSICAL SYMBOLS

	D08	D09	D0A	D0B	D0C	D0D	D0E	D0F
0								
1								
2								
3								
4								
5								
6								
7								
8								
9								
A								
B								
C								
D								
E								
F								

G = 00
P = 01

TABLE 5 – Row D0: BYZANTINE MUSICAL SYMBOLS

hex	Name	hex	Name
80	GREEK BYZANTINE MUSIC DIPLI ARCHAIC SIGN	CB	GREEK BYZANTINE MUSIC FTHORA I YFESIS TETARTIMORION
81	GREEK BYZANTINE MUSIC KRATIMA ARCHAIC SIGN	CC	SIGN GREEK BYZANTINE MUSIC FTHORA ENARMONIOS
82	GREEK BYZANTINE MUSIC KRATIMA ALLO SIGN		ANTIFONIA SIGN
83	GREEK BYZANTINE MUSIC KRATIMA LATE SIGN	CD	GREEK BYZANTINE MUSIC YFESIS TRITIMORION SIGN
84	GREEK BYZANTINE MUSIC APODERMA LATE SIGN	CE	GREEK BYZANTINE MUSIC DIESIS TRITIMORION SIGN
85	GREEK BYZANTINE MUSIC APLI SIGN	CF	GREEK BYZANTINE MUSIC DIESIS TETARTIMORION SIGN
86	GREEK BYZANTINE MUSIC DIPLI SIGN	D0	GREEK BYZANTINE MUSIC DIESIS APLI DYO DODEKATA SIGN
87	GREEK BYZANTINE MUSIC TRIPLI SIGN	D1	GREEK BYZANTINE MUSIC DIESIS MONOGRAMMOS TESSERA
88	GREEK BYZANTINE MUSIC TETRAPLI SIGN		DODEKATA SIGN
89	GREEK BYZANTINE MUSIC KORONIS SIGN	D2	GREEK BYZANTINE MUSIC DIESIS DIGRAMMOS EX DODEKATA
8A	GREEK BYZANTINE MUSIC LEIMMA ENOS CHRONOU SIGN		SIGN
8B	GREEK BYZANTINE MUSIC LEIMMA DYO CHRONON SIGN	D3	GREEK BYZANTINE MUSIC DIESIS TRIGRAMMOS OKTO
8C	GREEK BYZANTINE MUSIC LEIMMA TRION CHRONON SIGN		DODEKATA SIGN
8D	GREEK BYZANTINE MUSIC LEIMMA TESSARON CHRONON SIGN	D4	GREEK BYZANTINE MUSIC YFESIS APLI DYO DODEKATA SIGN
8E	GREEK BYZANTINE MUSIC LEIMMA IMISEOS CHRONOU SIGN	D5	GREEK BYZANTINE MUSIC YFESIS MONOGRAMMOS TESSERA
8F	GREEK BYZANTINE MUSIC GORGON LATE ANO SIGN		DODEKATA SIGN
90	GREEK BYZANTINE MUSIC GORGON PARESTIGMENON	D6	GREEK BYZANTINE MUSIC YFESIS DIGRAMMOS EX DODEKATA
	ARISTERA SIGN	D7	GREEK BYZANTINE MUSIC YFESIS TRIGRAMMOS OKTO
91	GREEK BYZANTINE MUSIC GORGON PARESTIGMENON DEXIA		DODEKATA SIGN
	SIGN	D8	GREEK BYZANTINE MUSIC GENIKI DIESIS SIGN
92	GREEK BYZANTINE MUSIC DIGORGON SIGN	D9	GREEK BYZANTINE MUSIC GENIKI YFESIS SIGN
93	GREEK BYZANTINE MUSIC DIGORGON PARESTIGMENON	DA	GREEK BYZANTINE MUSIC DIASTOLI APLI MIKRI SIGN
	ARISTERA KATO SIGN	DB	GREEK BYZANTINE MUSIC DIASTOLI APLI MEGALI SIGN
94	GREEK BYZANTINE MUSIC DIGORGON PARESTIGMENON	DC	GREEK BYZANTINE MUSIC DIASTOLI DIPLI SIGN
	ARISTERA ANO SIGN	DD	GREEK BYZANTINE MUSIC DIASTOLI THESEOS SIGN
95	GREEK BYZANTINE MUSIC DIGORGON PARESTIGMENON DEXIA	DE	GREEK BYZANTINE MUSIC SIMANSIS THESEOS SIGN
	SIGN	DF	GREEK BYZANTINE MUSIC SIMANSIS THESEOS DISIMOU SIGN
96	GREEK BYZANTINE MUSIC TRIGORGON SIGN	E0	GREEK BYZANTINE MUSIC SIMANSIS THESEOS TRISIMOU SIGN
97	GREEK BYZANTINE MUSIC ARGON SIGN	E1	GREEK BYZANTINE MUSIC SIMANSIS THESEOS TETRASIMOU
98	GREEK BYZANTINE MUSIC IMIDIARGON SIGN		SIGN
99	GREEK BYZANTINE MUSIC DIARGON SIGN	E2	GREEK BYZANTINE MUSIC SIMANSIS ARSEOS SIGN
9A	GREEK BYZANTINE MUSIC AGOGI POLI ARGI SIGN	E3	GREEK BYZANTINE MUSIC SIMANSIS ARSEOS DISIMOU SIGN
9B	GREEK BYZANTINE MUSIC AGOGI ARGOTERI SIGN	E4	GREEK BYZANTINE MUSIC SIMANSIS ARSEOS TRISIMOU SIGN
9C	GREEK BYZANTINE MUSIC AGOGI ARGI SIGN	E5	GREEK BYZANTINE MUSIC SIMANSIS ARSEOS TETRASIMOU SIGN
9D	GREEK BYZANTINE MUSIC AGOGI METRIA SIGN	E6	GREEK BYZANTINE MUSIC DIGRAMMA GG SIGN
9E	GREEK BYZANTINE MUSIC AGOGI MESI SIGN	E7	GREEK BYZANTINE MUSIC DIFTOGGOS OU SIGN
9F	GREEK BYZANTINE MUSIC AGOGI GORGI SIGN	E8	GREEK BYZANTINE MUSIC STIGMA SIGN
A0	GREEK BYZANTINE MUSIC AGOGI GORGOTERI SIGN	E9	GREEK BYZANTINE MUSIC ARKTIKO PA SIGN
A1	GREEK BYZANTINE MUSIC AGOGI POLI GORGI SIGN	EA	GREEK BYZANTINE MUSIC ARKTIKO VOU SIGN
A2	GREEK BYZANTINE MUSIC MARTYRIA PROTOS ICHOS SIGN	EB	GREEK BYZANTINE MUSIC ARKTIKO GA SIGN
A3	GREEK BYZANTINE MUSIC MARTYRIA ALLI PROTOS ICHOS SIGN	EC	GREEK BYZANTINE MUSIC ARKTIKO DI SIGN
A4	GREEK BYZANTINE MUSIC MARTYRIA DEYTEROS ICHOS SIGN	ED	GREEK BYZANTINE MUSIC ARKTIKO KE SIGN
A5	GREEK BYZANTINE MUSIC MARTYRIA ALLI DEYTEROS ICHOS	EE	GREEK BYZANTINE MUSIC ARKTIKO ZO SIGN
	SIGN	EF	GREEK BYZANTINE MUSIC ARKTIKO NI SIGN
A6	GREEK BYZANTINE MUSIC MARTYRIA TRITOS ICHOS SIGN	F0	GREEK BYZANTINE MUSIC KENTIMATA LATE MESO SIGN
A7	GREEK BYZANTINE MUSIC MARTYRIA TRIFONIAS SIGN	F1	GREEK BYZANTINE MUSIC KENTIMA LATE MESO SIGN
A8	GREEK BYZANTINE MUSIC MARTYRIA TETARTOS ICHOS SIGN	F2	GREEK BYZANTINE MUSIC KENTIMATA LATE KATO SIGN
A9	GREEK BYZANTINE MUSIC MARTYRIA TETARTOS LEGETOS	F3	GREEK BYZANTINE MUSIC KENTIMA LATE KATO SIGN
	(ICHOS) SIGN	F4	GREEK BYZANTINE MUSIC KLASMA KATO SIGN
AA	GREEK BYZANTINE MUSIC MARTYRIA LEGETOS ICHOS SIGN	F5	GREEK BYZANTINE MUSIC GORGON LATE KATO SIGN
AB	GREEK BYZANTINE MUSIC MARTYRIA PLAGIOS ICHOS SIGN	F6	(This position shall not be used)
AC	GREEK BYZANTINE MUSIC ISAKIA TELOUS ICHIMATOS SIGN	F7	(This position shall not be used)
AD	GREEK BYZANTINE MUSIC APOSTROFOI TELOUS ICHIMATOS	F8	(This position shall not be used)
	SIGN	F9	(This position shall not be used)
AE	GREEK BYZANTINE MUSIC FANEROSIS TETRAFONIAS SIGN	FA	(This position shall not be used)
AF	GREEK BYZANTINE MUSIC FANEROSIS MONOFONIAS SIGN	FB	(This position shall not be used)
B0	GREEK BYZANTINE MUSIC FANEROSIS DIFONIAS SIGN	FC	(This position shall not be used)
B1	GREEK BYZANTINE MUSIC MARTYRIA VARYS ICHOS SIGN	FD	(This position shall not be used)
B2	GREEK BYZANTINE MUSIC MARTYRIA PROTOVARYS ICHOS SIGN	FE	(This position shall not be used)
B3	GREEK BYZANTINE MUSIC MARTYRIA PLAGIOS TETARTOS	FF	(This position shall not be used)
	ICHOS SIGN		
B4	GREEK BYZANTINE MUSIC GORTHMIKON N APLOUN SIGN		
B5	GREEK BYZANTINE MUSIC GORTHMIKON N DIPLOUN SIGN		
B6	GREEK BYZANTINE MUSIC ENARXIS KAI FTHORA VOU		
B7	GREEK BYZANTINE MUSIC IMIFONON SIGN		
B8	GREEK BYZANTINE MUSIC IMIFTHORON SIGN		
B9	GREEK BYZANTINE MUSIC FTHORA ARCHAIC DEYTEROU ICHOU		
	SIGN		
BA	GREEK BYZANTINE MUSIC FTHORA DIATONIKI PA SIGN		
BB	GREEK BYZANTINE MUSIC FTHORA DIATONIKI NANA SIGN		
BC	GREEK BYZANTINE MUSIC FTHORA NAOS ICHOS SIGN		
BD	GREEK BYZANTINE MUSIC FTHORA DIATONIKI DI SIGN		
BE	GREEK BYZANTINE MUSIC FTHORA SKLIRON DIATONON DI SIGN		
BF	GREEK BYZANTINE MUSIC FTHORA DIATONIKI KE SIGN		
C0	GREEK BYZANTINE MUSIC FTHORA DIATONIKI ZO SIGN		
C1	GREEK BYZANTINE MUSIC FTHORA DIATONIKI NI KATO SIGN		
C2	GREEK BYZANTINE MUSIC FTHORA DIATONIKI NI ANO SIGN		
C3	GREEK BYZANTINE MUSIC FTHORA MALAKON CHROMA		
	DIFONIAS SIGN		
C4	GREEK BYZANTINE MUSIC FTHORA MALAKON CHROMA		
	MONOFONIAS SIGN		
C5	GREEK BYZANTINE MUSIC FHTORA SKLIRON CHROMA VASIS		
	SIGN		
C6	GREEK BYZANTINE MUSIC FTHORA SKLIRON CHROMA SYNAFI		
	SIGN		
C7	GREEK BYZANTINE MUSIC FTHORA NENANO SIGN		
C8	GREEK BYZANTINE MUSIC CHROA ZYGOS SIGN		
C9	GREEK BYZANTINE MUSIC CHROA KLITON SIGN		
CA	GREEK BYZANTINE MUSIC CHROA SPATHI SIGN		

TABLE 6 – Row D1: WESTERN MUSICAL SYMBOLS

	D10	D11	D12	D13	D14	D15	D16	D17
0								
1								
2								
3								
4								
5								
6								
7								
8								
9								
A								
B								
C								
D								
E								
F								

G = 00
P = 01

TABLE 6 – Row D1: WESTERN MUSICAL SYMBOLS

hex	Name	hex	Name
00	WESTERN MUSICAL SYMBOL SHARP	58	WESTERN MUSICAL SYMBOL UP BOW
01	WESTERN MUSICAL SYMBOL FLAT	59	WESTERN MUSICAL SYMBOL HARMONIC
02	WESTERN MUSICAL SYMBOL NATURAL	5A	WESTERN MUSICAL SYMBOL SNAP PIZZICATO
03	WESTERN MUSICAL SYMBOL DOUBLE SHARP	5B	WESTERN MUSICAL SYMBOL PEDAL MARK
04	WESTERN MUSICAL SYMBOL DOUBLE FLAT	5C	WESTERN MUSICAL SYMBOL PEDAL UP MARK
05	WESTERN MUSICAL SYMBOL FLAT UP	5D	WESTERN MUSICAL SYMBOL HALF PEDAL MARK
06	WESTERN MUSICAL SYMBOL FLAT DOWN	5E	WESTERN MUSICAL SYMBOL GLISSANDO UP
07	WESTERN MUSICAL SYMBOL NATURAL UP	5F	WESTERN MUSICAL SYMBOL GLISSANDO DOWN
08	WESTERN MUSICAL SYMBOL NATURAL DOWN	60	WESTERN MUSICAL SYMBOL WITH FINGERNAILS
09	WESTERN MUSICAL SYMBOL SHARP UP	61	WESTERN MUSICAL SYMBOL DAMP
0A	WESTERN MUSICAL SYMBOL SHARP DOWN	62	WESTERN MUSICAL SYMBOL DAMP ALL
0B	WESTERN MUSICAL SYMBOL QUARTER TONE SHARP	63	WESTERN MUSICAL SYMBOL MAXIMA
0C	WESTERN MUSICAL SYMBOL QUARTER TONE FLAT	64	WESTERN MUSICAL SYMBOL LONGA
0D	WESTERN MUSICAL SYMBOL HAUPTSTIMME	65	WESTERN MUSICAL SYMBOL BREVIS
0E	WESTERN MUSICAL SYMBOL NEBENSTIMME	66	WESTERN MUSICAL SYMBOL SEMIBREVIS WHITE
0F	WESTERN MUSICAL SYMBOL DEGREE SLASH	67	WESTERN MUSICAL SYMBOL SEMIBREVIS BLACK
10	WESTERN MUSICAL SYMBOL ACCENT	68	WESTERN MUSICAL SYMBOL MINIMA
11	WESTERN MUSICAL SYMBOL STACCATO	69	WESTERN MUSICAL SYMBOL MINIMA BLACK
12	WESTERN MUSICAL SYMBOL TENUTO	6A	WESTERN MUSICAL SYMBOL SEMIMINIMA WHITE
13	WESTERN MUSICAL SYMBOL STACCATISSIMO	6B	WESTERN MUSICAL SYMBOL SEMIMINIMA BLACK
14	WESTERN MUSICAL SYMBOL MARCATO	6C	WESTERN MUSICAL SYMBOL FUSA WHITE
15	WESTERN MUSICAL SYMBOL MARCATO-STACCATO	6D	WESTERN MUSICAL SYMBOL FUSA BLACK
16	WESTERN MUSICAL SYMBOL ACCENT-STACCATO	6E	WESTERN MUSICAL SYMBOL LONGA PERFECTA REST
17	WESTERN MUSICAL SYMBOL LOURE	6F	WESTERN MUSICAL SYMBOL LONGA IMPERFECTA REST
18	WESTERN MUSICAL SYMBOL ARPEGGIATO UP	70	WESTERN MUSICAL SYMBOL BREVIS REST
19	WESTERN MUSICAL SYMBOL ARPEGGIATO DOWN	71	WESTERN MUSICAL SYMBOL SEMIBREVIS REST
1A	WESTERN MUSICAL SYMBOL DOIT	72	WESTERN MUSICAL SYMBOL MINIMA REST
1B	WESTERN MUSICAL SYMBOL RIP	73	WESTERN MUSICAL SYMBOL SEMIMINIMA REST
1C	WESTERN MUSICAL SYMBOL FLIP	74	WESTERN MUSICAL SYMBOL TEMPUS PERFECTUM CUM PROLATIONE PERFECTA
1D	WESTERN MUSICAL SYMBOL SMEAR	75	WESTERN MUSICAL SYMBOL TEMPUS PERFECTUM CUM PROLATIONE IMPERFECTA
1E	WESTERN MUSICAL SYMBOL BEND	76	WESTERN MUSICAL SYMBOL TEMPUS PERFECTUM CUM PROLATIONE PERFECTA DIMINUTION ONE
1F	WESTERN MUSICAL SYMBOL DOUBLE TONGUE	77	WESTERN MUSICAL SYMBOL TEMPUS IMPERFECTUM CUM PROLATIONE PERFECTA
20	WESTERN MUSICAL SYMBOL TRIPLE TONGUE	78	WESTERN MUSICAL SYMBOL TEMPUS IMPERFECTUM CUM PROLATIONE IMPERFECTA
21	WESTERN MUSICAL SYMBOL RINFORZANDO	79	WESTERN MUSICAL SYMBOL TEMPUS IMPERFECTUM CUM PROLATIONE IMPERFECTA DIMINUTION ONE
22	WESTERN MUSICAL SYMBOL SUBITO	7A	WESTERN MUSICAL SYMBOL TEMPUS IMPERFECTUM CUM PROLATIONE IMPERFECTA DIMINUTION TWO
23	WESTERN MUSICAL SYMBOL Z	7B	WESTERN MUSICAL SYMBOL TEMPUS IMPERFECTUM CUM PROLATIONE IMPERFECTA DIMINUTION THREE
24	WESTERN MUSICAL SYMBOL SINGLE BARLINE	7C	WESTERN MUSICAL SYMBOL CROIX
25	WESTERN MUSICAL SYMBOL DOUBLE BARLINE	7D	WESTERN MUSICAL SYMBOL X NOTEHEAD
26	WESTERN MUSICAL SYMBOL FINAL BARLINE	7E	WESTERN MUSICAL SYMBOL PLUS NOTEHEAD
27	WESTERN MUSICAL SYMBOL REVERSE FINAL BARLINE	7F	WESTERN MUSICAL SYMBOL CIRCLE X NOTEHEAD
28	WESTERN MUSICAL SYMBOL DASHED BARLINE		
29	WESTERN MUSICAL SYMBOL SHORT BARLINE		
2A	WESTERN MUSICAL SYMBOL LEFT REPEAT SIGN		
2B	WESTERN MUSICAL SYMBOL RIGHT REPEAT SIGN		
2C	WESTERN MUSICAL SYMBOL REPEAT DOTS		
2D	WESTERN MUSICAL SYMBOL DAL SEGNO		
2E	WESTERN MUSICAL SYMBOL DA CAPO		
2F	WESTERN MUSICAL SYMBOL SEGNO		
30	WESTERN MUSICAL SYMBOL CODA		
31	WESTERN MUSICAL SYMBOL REPEATED FIGURE ONE		
32	WESTERN MUSICAL SYMBOL REPEATED FIGURE TWO		
33	WESTERN MUSICAL SYMBOL REPEATED FIGURE THREE		
34	WESTERN MUSICAL SYMBOL FERMATA		
35	WESTERN MUSICAL SYMBOL FERMATA UNDER		
36	WESTERN MUSICAL SYMBOL BREATH MARK		
37	WESTERN MUSICAL SYMBOL CAESURA		
38	WESTERN MUSICAL SYMBOL BRACE		
39	WESTERN MUSICAL SYMBOL BRACKET		
3A	WESTERN MUSICAL SYMBOL G CLEF		
3B	WESTERN MUSICAL SYMBOL G CLEF OTTAVA ALTA		
3C	WESTERN MUSICAL SYMBOL G CLEF OTTAVA BASSA		
3D	WESTERN MUSICAL SYMBOL C CLEF		
3E	WESTERN MUSICAL SYMBOL OLD C CLEF		
3F	WESTERN MUSICAL SYMBOL F CLEF		
40	WESTERN MUSICAL SYMBOL F CLEF OTTAVA ALTA		
41	WESTERN MUSICAL SYMBOL F CLEF OTTAVA BASSA		
42	WESTERN MUSICAL SYMBOL DRUM CLEF ONE		
43	WESTERN MUSICAL SYMBOL DRUM CLEF TWO		
44	WESTERN MUSICAL SYMBOL PIANO		
45	WESTERN MUSICAL SYMBOL MEZZO		
46	WESTERN MUSICAL SYMBOL FORTE		
47	WESTERN MUSICAL SYMBOL CRESCENDO		
48	WESTERN MUSICAL SYMBOL DECRESCENDO		
49	WESTERN MUSICAL SYMBOL GREGORIAN C CLEF		
4A	WESTERN MUSICAL SYMBOL GREGORIAN F CLEF		
4B	WESTERN MUSICAL SYMBOL SQUARE B		
4C	WESTERN MUSICAL SYMBOL VIRGA		
4D	WESTERN MUSICAL SYMBOL PODATUS		
4E	WESTERN MUSICAL SYMBOL CLIVIS		
4F	WESTERN MUSICAL SYMBOL SCANDICUS		
50	WESTERN MUSICAL SYMBOL CLIMACUS		
51	WESTERN MUSICAL SYMBOL TORCULUS		
52	WESTERN MUSICAL SYMBOL PORRECTUS		
53	WESTERN MUSICAL SYMBOL PORRECTUS FLEXUS		
54	WESTERN MUSICAL SYMBOL SCANDICUS FLEXUS		
55	WESTERN MUSICAL SYMBOL TORCULUS RESUPINUS		
56	WESTERN MUSICAL SYMBOL PES SUBPUNCTIS		
57	WESTERN MUSICAL SYMBOL DOWN BOW		

Group 00

Plane 01

Row D1

TABLE 7 – Row D1: WESTERN MUSICAL SYMBOLS

	D18	D19	D1A	D1B	D1C	D1D	D1E	D1F
0				15 ^{ma}				
1				15 ^{mb}				
2		NULL NOTE HEAD						
3								
4				<i>tr</i>				
5								
6			TIE- START					
7			TIE- END					
8			BEAM- START					
9			BEAM- END					
A			SLUR- START					
B			SLUR- END					
C			PHRASE START					
D			PHRASE END					
E			8 ^{va}					
F			8 ^{vb}					

G = 00
P = 01

TABLE 7 – Row D1: WESTERN MUSICAL SYMBOLS

hex	Name	hex	Name
80	WESTERN MUSICAL SYMBOL SQUARE NOTEHEAD WHITE	CE	WESTERN MUSICAL SYMBOL TWO-LINE STAFF
81	WESTERN MUSICAL SYMBOL SQUARE NOTEHEAD BLACK	CF	WESTERN MUSICAL SYMBOL THREE-LINE STAFF
82	WESTERN MUSICAL SYMBOL TRIANGLE NOTEHEAD UP WHITE	D0	WESTERN MUSICAL SYMBOL FOUR-LINE STAFF
83	WESTERN MUSICAL SYMBOL TRIANGLE NOTEHEAD UP BLACK	D1	WESTERN MUSICAL SYMBOL FIVE-LINE STAFF
84	WESTERN MUSICAL SYMBOL TRIANGLE NOTEHEAD LEFT WHITE	D2	WESTERN MUSICAL SYMBOL SIX-LINE STAFF
85	WESTERN MUSICAL SYMBOL TRIANGLE NOTEHEAD LEFT BLACK	D3	WESTERN MUSICAL SYMBOL STEM PLUS FLAG ONE
86	WESTERN MUSICAL SYMBOL TRIANGLE NOTEHEAD RIGHT WHITE	D4	WESTERN MUSICAL SYMBOL STEM PLUS FLAG TWO
87	WESTERN MUSICAL SYMBOL TRIANGLE NOTEHEAD RIGHT BLACK	D5	WESTERN MUSICAL SYMBOL STEM PLUS FLAG THREE
88	WESTERN MUSICAL SYMBOL TRIANGLE NOTEHEAD DOWN WHITE	D6	WESTERN MUSICAL SYMBOL STEM PLUS FLAG FOUR
89	WESTERN MUSICAL SYMBOL TRIANGLE NOTEHEAD DOWN BLACK	D7	WESTERN MUSICAL SYMBOL STEM PLUS FLAG FIVE
8A	WESTERN MUSICAL SYMBOL TRIANGLE NOTEHEAD UP RIGHT WHITE	D8	WESTERN MUSICAL SYMBOL SIX-STRING FRETBOARD
8B	WESTERN MUSICAL SYMBOL TRIANGLE NOTEHEAD UP RIGHT BLACK	D9	WESTERN MUSICAL SYMBOL FOUR-STRING FRETBOARD
8C	WESTERN MUSICAL SYMBOL MOON NOTEHEAD WHITE	DA	WESTERN MUSICAL SYMBOL COMMON TIME
8D	WESTERN MUSICAL SYMBOL MOON NOTEHEAD BLACK	DB	WESTERN MUSICAL SYMBOL CUT TIME
8E	WESTERN MUSICAL SYMBOL TRIANGLE-ROUND NOTEHEAD DOWN WHITE	DC	(This position shall not be used)
8F	WESTERN MUSICAL SYMBOL TRIANGLE-ROUND NOTEHEAD DOWN BLACK	DD	(This position shall not be used)
90	WESTERN MUSICAL SYMBOL PARENTHESIS NOTEHEAD	DE	(This position shall not be used)
91	WESTERN MUSICAL SYMBOL VOID NOTEHEAD	DF	(This position shall not be used)
92	WESTERN MUSICAL SYMBOL NULL NOTEHEAD	E0	(This position shall not be used)
93	WESTERN MUSICAL SYMBOL NOTEHEAD BLACK	E1	(This position shall not be used)
94	WESTERN MUSICAL SYMBOL CLUSTER NOTEHEAD WHITE	E2	(This position shall not be used)
95	WESTERN MUSICAL SYMBOL CLUSTER NOTEHEAD BLACK	E3	(This position shall not be used)
96	WESTERN MUSICAL SYMBOL STEM	E4	(This position shall not be used)
97	WESTERN MUSICAL SYMBOL SPRECHGESANG STEM	E5	(This position shall not be used)
98	WESTERN MUSICAL SYMBOL TREMOLO STEM ONE	E6	(This position shall not be used)
99	WESTERN MUSICAL SYMBOL TREMOLO STEM TWO	E7	(This position shall not be used)
9A	WESTERN MUSICAL SYMBOL TREMOLO STEM THREE	E8	(This position shall not be used)
9B	WESTERN MUSICAL SYMBOL FINGERED TREMOLO	E9	(This position shall not be used)
9C	WESTERN MUSICAL SYMBOL BREVE	EA	(This position shall not be used)
9D	WESTERN MUSICAL SYMBOL WHOLE NOTE	EB	(This position shall not be used)
9E	WESTERN MUSICAL SYMBOL HALF NOTE	EC	(This position shall not be used)
9F	WESTERN MUSICAL SYMBOL QUARTER NOTE	ED	(This position shall not be used)
A0	WESTERN MUSICAL SYMBOL EIGHTH NOTE	EE	(This position shall not be used)
A1	WESTERN MUSICAL SYMBOL SIXTEENTH NOTE	EF	(This position shall not be used)
A2	WESTERN MUSICAL SYMBOL THIRTY-SECOND NOTE	F0	(This position shall not be used)
A3	WESTERN MUSICAL SYMBOL SIXTY-FOURTH NOTE	F1	(This position shall not be used)
A4	WESTERN MUSICAL SYMBOL ONE HUNDRED TWENTY-EIGHTH NOTE	F2	(This position shall not be used)
A5	WESTERN MUSICAL SYMBOL AUGMENTATION DOT	F3	(This position shall not be used)
A6	WESTERN MUSICAL SYMBOL TIE-START	F4	(This position shall not be used)
A7	WESTERN MUSICAL SYMBOL TIE-END	F5	(This position shall not be used)
A8	WESTERN MUSICAL SYMBOL BEAM-START	F6	(This position shall not be used)
A9	WESTERN MUSICAL SYMBOL BEAM-END	F7	(This position shall not be used)
AA	WESTERN MUSICAL SYMBOL SLUR-START	F8	(This position shall not be used)
AB	WESTERN MUSICAL SYMBOL SLUR-END	F9	(This position shall not be used)
AC	WESTERN MUSICAL SYMBOL PHRASE-START	FA	(This position shall not be used)
AD	WESTERN MUSICAL SYMBOL PHRASE-END	FB	(This position shall not be used)
AE	WESTERN MUSICAL SYMBOL OTTAVA ALTA	FC	(This position shall not be used)
AF	WESTERN MUSICAL SYMBOL OTTAVA BASSA	FD	(This position shall not be used)
B0	WESTERN MUSICAL SYMBOL QUINDICESIMA ALTA	FE	(This position shall not be used)
B1	WESTERN MUSICAL SYMBOL QUINDICESIMA BASSA	FF	(This position shall not be used)
B2	WESTERN MUSICAL SYMBOL GRACE NOTE SLASH		
B3	WESTERN MUSICAL SYMBOL GRACE NOTE NO SLASH		
B4	WESTERN MUSICAL SYMBOL TR		
B5	WESTERN MUSICAL SYMBOL TURN		
B6	WESTERN MUSICAL SYMBOL INVERTED TURN		
B7	WESTERN MUSICAL SYMBOL TURN SLASH		
B8	WESTERN MUSICAL SYMBOL TURN UP		
B9	WESTERN MUSICAL SYMBOL ORNAMENT STROKE ONE		
BA	WESTERN MUSICAL SYMBOL ORNAMENT STROKE TWO		
BB	WESTERN MUSICAL SYMBOL ORNAMENT STROKE THREE		
BC	WESTERN MUSICAL SYMBOL ORNAMENT STROKE FOUR		
BD	WESTERN MUSICAL SYMBOL ORNAMENT STROKE FIVE		
BE	WESTERN MUSICAL SYMBOL ORNAMENT STROKE SIX		
BF	WESTERN MUSICAL SYMBOL ORNAMENT STROKE SEVEN		
C0	WESTERN MUSICAL SYMBOL ORNAMENT STROKE EIGHT		
C1	WESTERN MUSICAL SYMBOL ORNAMENT STROKE NINE		
C2	WESTERN MUSICAL SYMBOL ORNAMENT STROKE TEN		
C3	WESTERN MUSICAL SYMBOL ORNAMENT STROKE ELEVEN		
C4	WESTERN MUSICAL SYMBOL MULTI REST		
C5	WESTERN MUSICAL SYMBOL WHOLE REST		
C6	WESTERN MUSICAL SYMBOL HALF REST		
C7	WESTERN MUSICAL SYMBOL QUARTER REST		
C8	WESTERN MUSICAL SYMBOL EIGHTH REST		
C9	WESTERN MUSICAL SYMBOL SIXTEENTH REST		
CA	WESTERN MUSICAL SYMBOL THIRTY-SECOND REST		
CB	WESTERN MUSICAL SYMBOL SIXTY-FOURTH REST		
CC	WESTERN MUSICAL SYMBOL ONE HUNDRED TWENTY-EIGHTH REST		
CD	WESTERN MUSICAL SYMBOL ONE-LINE STAFF		

9.2 Supplementary Plane for CJK Unified Ideographs

An overview of the Secondary Multilingual Plane for scripts and symbols is shown in figure 2. Detailed code tables and lists of character names for the planes are shown on the following pages.

Editor's note: CJK Unified Ideographs allocation as specified in the CJK Unified Ideographs Extension B Working Draft 1999-02-07, Document WG2/IRG N615.

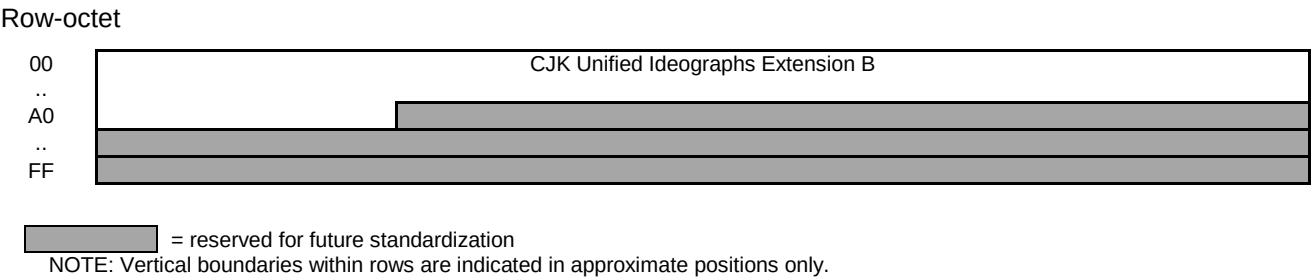


Figure 2 – Overview of the Supplementary Plane for CJK Unified Ideographs

9.3 General Purpose Plane

An overview of the General Purpose Plane is shown in figure 3. Detailed code tables and lists of character names for the planes are shown on the following pages.

Editor's Note: The Tags repertoire was accepted by resolution WG2 M34.14.

Row-octet

00	Tags	
..		
FF		

 = reserved for future standardization
NOTE: Vertical boundaries within rows are indicated in approximate positions only.

Figure 3 – Overview of the General Purpose Plane

TABLE 8 – Row 00: TAGS

	000	001	002	003	004	005	006	007
0								
1								
2								
3								
4								
5								
6								
7								
8								
9								
A								
B								
C								
D								
E								
F								

G = 00
P = 14

TABLE 8 – Row 00: TAGS

hex	Name	hex	Name
00	(This position shall not be used)	58	TAG LATIN CAPITAL LETTER X
01	LANGUAGE TAG	59	TAG LATIN CAPITAL LETTER Y
02	(This position shall not be used)	5A	TAG LATIN CAPITAL LETTER Z
03	(This position shall not be used)	5B	TAG LEFT SQUARE BRACKET
04	(This position shall not be used)	5C	TAG REVERSE SOLIDUS
05	(This position shall not be used)	5D	TAG RIGHT SQUARE BRACKET
06	(This position shall not be used)	5E	TAG CIRCUMFLEX ACCENT
07	(This position shall not be used)	5F	TAG LOW LINE
08	(This position shall not be used)	60	TAG GRAVE ACCENT
09	(This position shall not be used)	61	TAG LATIN SMALL LETTER A
0A	(This position shall not be used)	62	TAG LATIN SMALL LETTER B
0B	(This position shall not be used)	63	TAG LATIN SMALL LETTER C
0C	(This position shall not be used)	64	TAG LATIN SMALL LETTER D
0D	(This position shall not be used)	65	TAG LATIN SMALL LETTER E
0E	(This position shall not be used)	66	TAG LATIN SMALL LETTER F
0F	(This position shall not be used)	67	TAG LATIN SMALL LETTER G
10	(This position shall not be used)	68	TAG LATIN SMALL LETTER H
11	(This position shall not be used)	69	TAG LATIN SMALL LETTER I
12	(This position shall not be used)	6A	TAG LATIN SMALL LETTER J
13	(This position shall not be used)	6B	TAG LATIN SMALL LETTER K
14	(This position shall not be used)	6C	TAG LATIN SMALL LETTER L
15	(This position shall not be used)	6D	TAG LATIN SMALL LETTER M
16	(This position shall not be used)	6E	TAG LATIN SMALL LETTER N
17	(This position shall not be used)	6F	TAG LATIN SMALL LETTER O
18	(This position shall not be used)	70	TAG LATIN SMALL LETTER P
19	(This position shall not be used)	71	TAG LATIN SMALL LETTER Q
1A	(This position shall not be used)	72	TAG LATIN SMALL LETTER R
1B	(This position shall not be used)	73	TAG LATIN SMALL LETTER S
1C	(This position shall not be used)	74	TAG LATIN SMALL LETTER T
1D	(This position shall not be used)	75	TAG LATIN SMALL LETTER U
1E	(This position shall not be used)	76	TAG LATIN SMALL LETTER V
1F	(This position shall not be used)	77	TAG LATIN SMALL LETTER W
20	TAG SPACE	78	TAG LATIN SMALL LETTER X
21	TAG EXCLAMATION MARK	79	TAG LATIN SMALL LETTER Y
22	TAG QUOTATION MARK	7A	TAG LATIN SMALL LETTER Z
23	TAG NUMBER SIGN	7B	TAG LEFT CURLY BRACKET
24	TAG DOLLAR SIGN	7C	TAG VERTICAL LINE
25	TAG PERCENT SIGN	7D	TAG RIGHT CURLY BRACKET
26	TAG AMPERSAND	7E	TAG TILDE
27	TAG APOSTROPHE	7F	CANCEL TAG
28	TAG LEFT PARENTHESIS		
29	TAG RIGHT PARENTHESIS		
2A	TAG ASTERISK		
2B	TAG PLUS SIGN		
2C	TAG COMMA		
2D	TAG HYPHEN-MINUS		
2E	TAG FULL STOP		
2F	TAG SOLIDUS		
30	TAG DIGIT ZERO		
31	TAG DIGIT ONE		
32	TAG DIGIT TWO		
33	TAG DIGIT THREE		
34	TAG DIGIT FOUR		
35	TAG DIGIT FIVE		
36	TAG DIGIT SIX		
37	TAG DIGIT SEVEN		
38	TAG DIGIT EIGHT		
39	TAG DIGIT NINE		
3A	TAG COLON		
3B	TAG SEMICOLON		
3C	TAG LESS-THAN SIGN		
3D	TAG EQUALS SIGN		
3E	TAG GREATER-THAN SIGN		
3F	TAG QUESTION MARK		
40	TAG COMMERCIAL AT		
41	TAG LATIN CAPITAL LETTER A		
42	TAG LATIN CAPITAL LETTER B		
43	TAG LATIN CAPITAL LETTER C		
44	TAG LATIN CAPITAL LETTER D		
45	TAG LATIN CAPITAL LETTER E		
46	TAG LATIN CAPITAL LETTER F		
47	TAG LATIN CAPITAL LETTER G		
48	TAG LATIN CAPITAL LETTER H		
49	TAG LATIN CAPITAL LETTER I		
4A	TAG LATIN CAPITAL LETTER J		
4B	TAG LATIN CAPITAL LETTER K		
4C	TAG LATIN CAPITAL LETTER L		
4D	TAG LATIN CAPITAL LETTER M		
4E	TAG LATIN CAPITAL LETTER N		
4F	TAG LATIN CAPITAL LETTER O		
50	TAG LATIN CAPITAL LETTER P		
51	TAG LATIN CAPITAL LETTER Q		
52	TAG LATIN CAPITAL LETTER R		
53	TAG LATIN CAPITAL LETTER S		
54	TAG LATIN CAPITAL LETTER T		
55	TAG LATIN CAPITAL LETTER U		
56	TAG LATIN CAPITAL LETTER V		
57	TAG LATIN CAPITAL LETTER W		

Group 00

Plane 14

Row 00

Annexes

Annex A: Collections of graphic characters for subsets (normative)

A.1 Collections of coded graphic characters

The collections listed below are ordered by collection number.

<u>Collection number and name</u>	<u>Position</u>
1001 ETRUSCAN	10300-1032F
1002 GOTHIC	10330-1034F
1003 DESERET	10400-1044F
1004 BYZANTINE MUSICAL SYMBOLS	1D000-1D0FF
1005 WESTERN MUSICAL SYMBOLS	1D100-1D1FF
2001 TAGS	E0000-E007F

The following specify other collections:

1000 SMP	10000-1FFFF
1900 SMP COMBINING CHARACTERS	see annex B
1100 SIP	20000-2FFFF
2000 GPP	E0000-EFFFF

A.2 Blocks in the SMP

The following blocks are specified in the Secondary Multilingual Plane for scripts and symbols. They are ordered by code position:

<u>Block name</u>	<u>from</u> _____ <u>to</u>
ETRUSCAN	10300-1032F
GOTHIC	10330-1034F
DESERET	10400-1044F
BYZANTINE MUSICAL SYMBOLS	1D000-1D0FF
WESTERN MUSICAL SYMBOLS	1D100-1D1FF

A.3 Blocks in the GPP

The following blocks are specified in the General Purpose Plane. They are ordered by code position:

<u>Block name</u>	<u>from</u> _____ <u>to</u>
TAGS	E0000-E007F

Annex B: List of combining characters (normative)

B.1 List of all combining characters

<TBD>

Annex C: Language tagging using Tag Characters (informative)

C.1 Overview

The purpose of Tag characters is to associate a text attribute with a point or range of a text sequence. The value of a particular tag is not generally considered to be part of the content of the text. Typical examples of tagging are to mark language or font of a portion of text.

These tag characters are to be used to spell out any ASCII-based tagging scheme that needs to be embedded into plain text. These characters can be easily identified and there is no overloading of usage for these tag characters. They can only express tag values and never textual content itself.

The TAGS block contain 97 dedicated tag characters consisting of a clone of the BASIC LATIN graphic characters (names formed by prefixing these BASIC LATIN names with the word 'TAG'), as well as a tag language identification character: LANGUAGE TAG and a tag cancel character: CANCEL TAG.

C.2 Syntax for embedding tags characters

The usage of the tag characters is very simple. In order to embed any ASCII-derived tag in plain text, the tag is simply spelled out with the tag characters instead, prefixed with the relevant tag identification character. The resultant string is embedded directly in the text.

The tag identification character is used as a mechanism for identifying tags of different types. This enables multiple types of tags to coexist amicably embedded in plain text and solves the problem of delimitation if a tag is concatenated directly onto another tag. Although only one type of tag is currently specified, namely the language tag, the encoding of other tag identification characters in the future would allow for distinct types to be used.

No termination character is required for a tag. A tag terminates either when the first non-GPP character is encountered, or when the next tag identification character is encountered.

All tag arguments are only encoded with the tag characters. No other characters are valid for expressing the tag argument.

C.3 Tag scope and nesting

The value of a tag continues from the point the tag is embedded in text until:

- either the text itself goes out of scope,
- or the tag is explicitly cancelled by the CANCEL TAG character.

Tags of the same type cannot be nested in any way. The appearance of a new embedded language tag, for example after text which was already language tagged, simply changes the tagged value for subsequent text to that specified in the new tag.

C.4 Canceling tag values

The CANCEL TAG character is provided to allow the specific canceling of a tag value. For example to cancel a language tag, the LANGUAGE TAG must precede the CANCEL TAG character.

The usage of the CANCEL TAG character without a prefixed tag identification character cancels any tag value that may be defined.

The main function of the character is to make possible such operations as blind concatenation of strings in a tagged context without the propagation of inappropriate tag values across the string boundaries.

C.5 Language tags

Language tags are of general interest and should have a high degree of interoperability for protocol usage. For example, to embed a language tag for Japanese, the tag characters would be used as follows:

U-000E0001 U-000E006A U-000E0061

The first value is the coded value of the LANGUAGE TAG character, the second corresponds to the TAG LATIN SMALL LETTER J, and the third corresponds to the TAG LATIN SMALL LETTER A. The sequence 'ja' corresponds to the Japanese language in ISO 639:1988.

