TITLE:	**PROPOSAL TO ADD OF 70 SYMBOLS** **TO ISO/IEC 10646-1:2000**
DOC. TYPE:	National body contribution
SOURCE:	Committee for Standardization of the D P R of Korea (CSK)
Action:	For review and acceptance by WG2
DISTRIBUTION:	Members of ISO/IEC JTC1/SC2/WG2 and Liaison organization
DATE:	2001-09-03
REFERENCE:	WG2 N2056, WG2 N2254, WG2 N2354, WG2 N2282

WG2 required D P R of Korea in M39.2 and M40.1 to review and refine the proposal from D P R of Korea according to the Korean ad hoc recommendation, N2282.

This document includes a more detailed information about 70 symbols specified in KPS 9566-97 and widely used in D P R of Korea according to the Korean ad hoc recommendation.

Therefore, D P R of Korea requests to make working draft of next amendment of ISO/IEC 10646-1:2000 after detailed review and consideration of our proposal in the 41st meeting of WG2.

70 symbols proposed in this time by D P R of Korea were applicated for registeration as ISO/IEC JTC1/SC2 N2958 on August 20, 1997 and were registered as ISO IR 202 on April 28, 1998 , so they are used world widely in the field of IT.

Our proposal summary form and the detailed information are as follows:

ISO/IEC JTC 1/SC 2/WG 2
PROPOSAL SUMMARY FORM TO ACCOMPANY SUBMISSIONS
FOR ADDITIONS TO THE REPERTORIE OF ISO/IEC 10646
Please fill all the sections A, B and C below

A. Administrative

1. Title: **Proposal to add 70 Symbols to ISO/IEC 10646-1:2000**

2. Requester's name: **Committee for Standardization of the D P R of Korea (CSK)**

3. Requester type (Member body/Liaison/Individual contribution):   Member body
4. Submission date: 2001-09-03
5. Requester's reference (if applicable):   KPS 9566-97
6. (Choose one of the following:)
        This is a complete proposal: Yes
        More information will be provided later:

B. Technical-General

1. (Choose one of the following:)
a.   This proposal is for a new script (set of characters):   No
      Proposed name of script:
b.   The proposal is for addition of character(s) to an existing block: Yes
      Name of the existing block:
      Letter like Symbols (3), Number Form (5), Miscellaneous Symbols (11),
      Supplemental Arrows-C (14), Dingbats (3), Supplemental CJK Compatibility (21),
      Enclosed CJK Letters (4), CJK Compatibility (7), CJK Compatibility Forms (2)

2. Number of characters in proposal: 70
3. Proposed category (see section II, character categories):   A
4. Proposed Level of Implementation (see clause 15, ISO/IEC 10646-1):   3
      Is a rationale provided for the choice?   _____
        If Yes, reference:
5. Is a repertoire including character names provided? :   Yes
      a. If YES, are the names in accordance with the 'character naming guidelines'
        in Annex K of ISO/IEC 10646-1?   Yes
      b. Are the character shapes attached in a reviewable form?   Yes
6. Who will provide the appropriate computerized font (ordered preference: TrueType,
      Postscript or 96*96 bit-mapped format) for publishing the standard?   CSK
      If available now, identify source(s) for the font (include address, e-mail,
        ftp-site, etc.) and indicate the tools used: TrueType format
7. References:
      a. Are references (to other character sets, dictionaries, descriptive texts etc.)
        provided?   Yes
      b. Are published examples (such as samples from newspapers, magazines, or
        other sources) of use of proposed characters attached?   Yes
      (Newspaper, magazine and other reference)

8. Special encoding is needed: No

C. Technical-Justification

1. Has this proposal for addition of character(s) been submitted before?   Yes
   If YES, explain   In the 38th and 39th WG2 meeting , WG2 N2182
2. Has contact been made to members of the user community (for example: National
   Body, user groups of the script or characters, other experts and etc.)?   Yes
   If YES, with whom?   All user community of DPRK.
                                                                eg. CSK,PIC,KCC, ASS etc.
   If YES, available relevant documents?   KPS 9566-97
3. Information on the user community for the proposed characters (for example: size,
   Demographics, information technology use, or publishing use) is included?   Yes
   Reference: KPS 9566-97
4. The context of use for the proposed characters (type of use; common or rare)   Common
   Reference: KPS 9566-97
5. Are the proposed characters in current use by the user community?   Yes
   If YES, where? Reference: All user community of DPRK.
6. After giving due considerations to the principles in "principles and procedures" document (a WG2
   standing document), must the proposed characters be entirely in the BMP?   Yes
   If YES, is a rationale provided?   Yes
   If YES, reference: KPS 9566-97
7. Should the proposed characters be kept together in a contiguous range (rather than being scattered)?
                                                                     Yes (only 6 characters)
8. Can any of the proposed characters be considered a presentation form of an existing character or character
   sequence?   No
9. Can any of the proposed character(s) be considered to be similar (in appearance
   or function) to an existing character?   Yes
   If YES, is a rationale for its inclusion provided?   Yes
   If YES, reference: KPS 9566-97
10. Does the proposed include use of combining characters and/ or use of composite
    sequences (see clauses 4.11 and 4.13 in ISO/IEC 10646-1)?   No
11. Does the proposal contain characters with any special properties such as control
    function or similar semantics?   No
    If YES, describe in detail (include attachment if necessary)

1. REPERTOIRE

Letterlike Symbols

No	Char	KPS	Propose UCS	Character Name
1	LTD	ACDC	U+214C	LIMITED LIABILITY SIGN # 004C 0054 0044
2	PTE	ACDD	U+214D	PARTNERSHIP SIGN # 0050 0054 0045
3	FAX	ACDF	U+214E	FACSIMILE SIGN # 0046 0041 0058

Number Forms

No	Char	KPS	Propose UCS	Character Name
1	$\frac{1}{2}$	A7FA	U+2151	VULGAR FRACTION ONE HALF WITH HORIZONTAL BAR # 00BD
2	$\frac{1}{3}$	A7FB	U+2184	VULGAR FRACTION ONE THIRD WITH HORIZONTAL BAR # 2153
3	$\frac{2}{3}$	A7FC	U+2185	VULGAR FRACTION TWO THIRDS WITH HORIZONTAL BAR # 2154
4	$\frac{1}{4}$	A7FD	U+2152	VULGAR FRACTION ONE QUARTER WITH HORIZONTAL BAR # 00BC
5	$\frac{3}{4}$	A7FE	U+2153	VULGAR FRACTION THREE QUARTERS WITH HORIZONTAL BAR # 00BE

Miscellaneous Symbols

No	Char	KPS	Propose UCS	Character Name
1		ACA6	U+2618	SHOWER WEATHER
2		ACA1	U+2614	HAMMER AND SICKLE AND BRUSH
3		ACA2	U+2615	CIRCLED HAMMER AND SICKLE AND BRUSH
4		A2F1	U+268A	WHITE UP-POINTING TRIANGLE WITH BLACK TRIANGLE
5		A2F2	U+268B	WHITE UP-POINTING TRIANGLE WITH HORIZONTAL FILL
6		A2F6	U+268C	WHITE UP-POINTING TRIANGLE WITH UPPER LEFT TO LOWER RIGHT FILL
7		A2F4	U+268D	WHITE UP-POINTING TRIANGLE WITH UPPER RIGHT TO LOWER LEFT FILL
8		A2F5	U+268E	WHITE FLAG

No	Char	KPS	Propose UCS	Character Name
9	⚑	A2F6	U+268F	BLACK FLAG
10	⚠	ACAA	U+267E	WHITE UP-POINTING TRIANGLE WITH CAUTION MARK
11	⚡	ACA9	U+267F	HIGH VOLTAGE CAUTION MARK

Supplemental Arrows-C　　　　　(New)

No	Char	KPS	Propose UCS	Character Name
1	⬀	ACBA	U+2B00	NORTH EAST WHITE ARROW
2	⬁	ACBB	U+2B01	NORTH WEST WHITE ARROW
3	⬂	ACBC	U+2B02	SOUTH EAST WHITE ARROW
4	⬃	ACBD	U+2B03	SOUTH WEST WHITE ARROW
5	⬄	ACBE	U+2B04	LEFT RIGHT WHITE ARROW
6	⬅	ACC1	U+2B05	LEFTWARDS BLACK ARROW
7	⬆	ACC2	U+2B06	UPWARDS BLACK ARROW
8	⬇	ACC3	U+2B07	DOWNWARDS BLACK ARROW
9	⬈	ACC4	U+2B08	NORTH EAST BLACK ARROW
10	⬉	ACC5	U+2B09	NORTH WEST BLACK ARROW
11	⬊	ACC6	U+2B0A	SOUTH EAST BLACK ARROW
12	⬋	ACC7	U+2B0B	SOUTH WEST BLACK ARROW
13	⬌	ACC8	U+2B0C	LEFT RIGHT BLACK ARROW
14	⬍	ACC9	U+2B0D	UP DOWN BLACK ARROW

Dingbats

No	Char	KPS	Propose UCS	Character Name
1	✀	ACD5	U+2700	LEFTWARDS SCISSORS
2	☞	ACD4	U+270B	CIRCLED UPWARD INDICATION
3	☕	ACD6	U+270A	TEA SYMBOL # WAITING SYMBOL

Supplemental CJK Compatibility   (New : 31C0-31EF)

No	Char	KPS	Propose UCS	Character Name
1	・	A1C0	U+31C0	VERTICAL FULL STOP # <vertical> FF0E
2	，	A1C1	U+31C1	VERTICAL COMMA # <vertical> FF0C
3	。	A1C2	U+31C2	VERTICAL IDEOGRAPHIC FULL STOP # <vertical> 3002
4	、	A1C3	U+31C3	VERTICAL IDEOGRAPHIC COMMA # <vertical> 3001
5	～	A1C5	U+31C4	VERTICAL TILDE # <vertical> FF5E
6	'	A1DE	U+31C5	VERTICAL LEFT SINGLE QUOTATION MARK # <vertical> 2018
7	'	A1DF	U+31C6	VERTICAL RIGHT SINGLE QUOTATION MARK # <vertical> 2019
8	"	A1E0	U+31C7	VERTICAL LEFT DOUBLE QUOTATION MARK # <vertical> 201C
9	"	A1E1	U+31C8	VERTICAL RIGHT DOUBLE QUOTATION MARK # <vertical> 201D
10	.)	A1DC	U+31C9	RIGHT PARENTHESIS WITH FULL STOP
11	.》	A1DD	U+31CA	RIGHT DOUBLE ANGLE BRACKET WITH FULL STOP
12	Hg	A8F7	U+31CB	SQUARE HG # <square> 0048 0067
13	erg	A8FA	U+31CC	SQUARE ERG # <square> 0045 0072 0067
14	eV	A8FB	U+31CD	SQUARE EV # <square> 0045 0056
15	▽	ACCF	U+31CE	WHITE DOWN-POINTING TRIANGLE WITH POSTAL MARK # 3012
16	김	A4E8	U+31D0	EMPHASIZED KOREAN LETTER KIM INSIDE KIM IL SUNG
17	일	A4E9	U+31D1	EMPHASIZED KOREAN LETTER IL INSIDE KIM IL SUNG
18	성	A4EA	U+31D2	EMPHASIZED KOREAN LETTER SUNG INSIDE KIM IL SUNG
19	김	A4EB	U+31D3	EMPHASIZED KOREAN LETTER KIM INSIDE KIM JONG IL
20	정	A4EC	U+31D4	EMPHASIZED KOREAN LETTER JONG INSIDE KIM JONG IL
21	일	A4ED	U+31D5	EMPHASIZED KOREAN LETTER IL INSIDE KIM JONG IL

Enclosed CJK Letters and Months

No	Char	KPS	Propose UCS	Character Name
1	(오전)	ACD9	U+321D	PARENTHESIZED KOREAN CHARACTER O JEON # <circle> C624 C804
2	(오후)	ACDA	U+321E	PARENTHESIZED KOREAN CHARACTER O HU # <circle> C624 D6C4
3	참고	ACD7	U+327C	CIRLED KOREAN CHARACTER CHAM KO # <circle> CC38 ACE0
4	주의	ACD8	U+327D	CIRLED KOREAN CHARACTER JU EUI # <circle> C8FC C73C

CJK Compatibility

No	Char	KPS	Propose UCS	Character Name
1	dm	A8B8	U+3377	SQUARE DM # <square> 0064 006D
2	dm^2	A8B9	U+3378	SQUARE DM SQUARED # <square> 0064 006D 00B2
3	dm^3	A8BA	U+3379	SQUARE DM CUBED # <square> 0064 006D 00B3
4	IU	ACE0	U+337A	SQUARE IU # <square> 0049 0055
5	$V\!/m$	A8DF	U+33DE	SQUARE V OVER M # <square> 0056 2215 006D
6	$A\!/m$	A8E0	U+33DF	SQUARE A OVER M # <square> 0041 2215 006D
7	gal	A8F1	U+33FF	SQUARE GAL # <square> 0067 0061 006C

CJK Compatibility Forms

No	Char	KPS	Propose UCS	Character Name
1	⎤	A1E6	U+FE47	PRESENTATION FORM FOR VERTICAL LEFT SQUARE BRACKET # <vertical> FF3B
2	⎣	A1E7	U+FE48	PRESENTATION FORM FOR VERTICAL RIGHT SQUARE BRACKET # <vertical> FF3D

2. Rationale and Evidence of usage

1) Letterlike Symbols, "LTD, PTE, FAX"

"LTD" is abbreviation of "Limited Liability"
"PTE" is abbreviation of "Partnership"
"FAX" is abbreviation of "Facsimile"

2) Number Forms, "$\frac{1}{2}, \frac{1}{3}, \frac{2}{3}, \frac{1}{4}, \frac{3}{4}$"

Fractional symbols using Dash and Slash as like "⅓, $\frac{1}{3}$" are defined individually in KPS-9566.
These symbols mean that 1 is divided by 3. They are used regularly in expressing fraction of mathematics as well as "$\frac{1}{2}, \frac{2}{3}, \frac{1}{4}, \frac{3}{4}$"

문 제

1. 다음 계산을 하여라.

1) $(+3)+(+7)$ 2) $(-9)+(-7)$
3) $(-1.3)+(-2.5)$ 4) $(-\frac{2}{3})+(-\frac{3}{4})+(+\frac{1}{4})$

2. 다음 계산을 하여라.

1) $(+12)+(-17)$ 2) $19+(-12)$
3) $(+4.2)+(+2.5)$ 4) $(+12)+(-12)$
5) $(-\frac{1}{3})+(+\frac{1}{2})$

Source: The publishing house of advanced education, Mathematics (Senior middle 1), 40p 1992

3) Miscellaneous Symbols, "☂,✷, ⊛,⌐, ◥,▲,▲,▰,▰,△,⚡"

These symbols are mark symbols.
"☂" means Shower Weather.
"✷ ⊛" is used in identifying symbols in map.
"⌐ ◥" is used in Marking battle place and the position where victory is gained.
Source: The publishing house of advanced education, Korean history 1992

"▲" shows that mountain is located in the front side as road mark.
"▲" means ascent.
"▰▰" shows slope in the left and right sides.
"△" is caution mark.
"⚡" shows electric danger.

4) Supplemental Arrows-C, "↗, ↘, ↘, ↗, ⇔, ←, ↑, ↓, ↗, ↘, ↘, ↗, ↔, ↕"

Represents 14 arrows and each arrow represent its direction.

평양→함흥(평양-함흥행 렬차)

5) Dingbats, " ✄,☝,☕ "

" ✄ " Leftward scissors whose direction is different from one of scissors registered.
" ☝ " Indicates symbol for upper direction .
" ☕ " Indicates that there is tea room in resting place on the map.

6) Supplemental CJK Compatibility (Vertical Writing), " 、,。,,,.,・,:,;,",",—,□, "
11 symbols are specified in KPS-9566-97 and JIS X 0208, which are used widely in vertical writing of sentence.

附属書4 表2　記述記号

区点	文字	縦書き	GL	GR	SJIS	日本語通用名称	名前
1-2	、	、	2122	a1a2	8141	読点	IDEOGRAPHIC COMMA
1-3	。	。	2123	a1a3	8142	句点	IDEOGRAPHIC FULL STOP
1-4	,	﹐	2124	a1a4	8143	コンマ	COMMA
1-5	.	﹒	2125	a1a5	8144	ピリオド	FULL STOP
1-6	・	・	2126	a1a6	8145	中点	KATAKANA MIDDLE DOT
1-7	:	‥	2127	a1a7	8146	コロン	COLON
1-8	;	;	2128	a1a8	8147	セミコロン	SEMICOLON
1-9	?	?	2129	a1a9	8148	疑問符	QUOTATION MARK
1-10	!	!	212a	a1aa	8149	感嘆符	EXCLAMATION MARK
1-29	—	┃	213d	a1bd	815c	ダッシュ(全角)	EM DASH
1-30	-	｜	213e	a1be	815d	ハイフン(四分)	HYPHEN
1-31	/	/	213f	a1bf	815e	斜線	SOLIDUS
1-32	\	\	2140	a1c0	815f	逆斜線	REVERSE SOLIDUS
1-33	~	∫	2141	a1c1	8160	波ダッシュ	WAVE DASH

X 0208

附属書4 表5　括弧記号

区点	文字	縦書き	GL	GR	SJIS	日本語通用名称	名前
1-38	'	﹅	2146	a1c6	8165	左シングル引用符	LEFT SINGLE QUOTATION MARK
1-39	'	﹅	2147	a1c7	8166	右シングル引用符	RIGHT SINGLE QUOTATION MARK
1-40	"	﹆	2148	a1c8	8167	左ダブル引用符	LEFT DOUBLE QUOTATION MARK
1-41	"	﹆	2149	a1c9	8168	右ダブル引用符	RIGHT DOUBLE QUOTATION MARK
1-42	(	⌒	214a	a1ca	8169	始め小括弧, 始め丸括弧	LEFT PARENTHESIS
1-43	)	⌣	214b	a1cb	816a	終わり小括弧, 終わり丸括弧	RIGHT PARENTHESIS
1-44	〔	⌒	214c	a1cc	816b	始めきっこう(亀甲)括弧	LEFT TORTOISE SHELL BRACKET
1-45	〕	⌣	214d	a1cd	816c	終わりきっこう(亀甲)括弧	RIGHT TORTOISE SHELL BRACKET
1-46	[	⌐	214e	a1ce	816d	始め大括弧, 始め角括弧	LEFT SQUARE BRACKET
1-47	]	¬	214f	a1cf	816e	終わり大括弧, 終わり角括弧	RIGHT SQUARE BRACKET
1-48	{	~	2150	a1d0	816f	始め中括弧, 始め波括弧	LEFT CURLY BRACKET
1-49	}	⌣	2151	a1d1	8170	終わり中括弧, 終わり波括弧	RIGHT CURLY BRACKET
1-50	〈	⌃	2152	a1d2	8171	始め山括弧	LEFT ANGLE BRACKET
1-51	〉	⌄	2153	a1d3	8172	終わり山括弧	RIGHT ANGLE BRACKET
1-52	《	⋙	2154	a1d4	8173	始め二重山括弧	LEFT DOUBLE ANGLE BRACKET
1-53	》	⋙	2155	a1d5	8174	終わり二重山括弧	RIGHT DOUBLE ANGLE BRACKET
1-54	「	¬	2156	a1d6	8175	始めかぎ括弧	LEFT CORNER BRACKET
1-55	」	⌐	2157	a1d7	8176	終わりかぎ括弧	RIGHT CORNER BRACKET
1-56	『	⌐	2158	a1d8	8177	始め二重かぎ括弧	LEFT WHITE CORNER BRACKET
1-57	』	¬	2159	a1d9	8178	終わり二重かぎ括弧	RIGHT WHITE CORNER BRACKET
1-58	【	⌐	215a	a1da	8179	始めすみ付き括弧	LEFT BLACK LENTICULAR BRACKET
1-59	】	⌐	215b	a1db	817a	終わりすみ付き括弧	RIGHT BLACK LENTICULAR BRACKET

7) CJK Compatibility, " .) 》"

" .) 》" symbols are used when denoting line end of sentence without interval between point, parenthesis and quotation mark. Of course, document can be edited with point and parenthesis but the gap between point and parenthesis is so wide as shown in the first sentence of example that it was edited with one symbol.

Eg.   《가는 길 험난해도 웃으며 가자. 》

        《가는 길 험난해도 웃으며 가자.》

8) CJK Compatibility (Unit) , " IU, gal, erg, Hg, eV, $\frac{V}{m}$, $\frac{A}{m}$, dm, dm^2, dm^3"

Unit symbols defined in KPS 9566-97 have high frequency among Unit symbols used in our country. These symbols are used for correct *line breaks*.

" IU "   **80kcal Foodstuff Introduction**   **Mokran publishing house 1996**

"gal"   **"Rotong Sinmun (Newspaper)"**

"erg" , "Hg" Publishing house of advanced education, Chemistry (Senior middle 2) 168p 1992

물리량	단위이름	기호	정의 (SI단위와의 관계)
길이	미크로메터	μm	$10^{-6}m = 1\ \mu m$
	옹그스트롬	Å	$10^{-8}cm = 10^{-10}m = 0.1\ nm$
힘	다인	dyn	$10^{-5}N$
에네르기	에르그	erg	$10^{-7}J$
	카로리	cal	$4.184J$
압력	기압	atm	$101325Nm^{-2}$
	미리메터수은주	mHg	$133.322Pa$

SI단위계에 속하지 않는 단위로서 아직도 많이 쓰이는 단위

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"eV" Publishing house of advanced education, Physics (Senior middle 2) 147P 1992

그림 9-11. 원자핵이 분렬되는 정형을 보인 모형

르기를 낸다. $^{235}_{92}U$의 1몰은 235g이며 1몰속에는 핵이 6×10^{23}개 들어있다. 그러므로 1kg의 우라늄속에는 $\frac{1000}{235} \times 6 \times 10^{23} = 2.5 \times 10^{24}$개의 핵이 들어있다. 그러므로 1kg의 $^{235}_{92}U$를 분렬시킬 때 얻는 에네르기는

$$200MeV \times 2.5 \times 10^{24} = 5 \times 10^{32}eV$$

그런데 $\qquad 1eV = 1.6 \times 10^{-19}J$

"V/m" , "A/m" Publishing house of advanced education, Physics (Senior middle 2) 1982

	물 리 단 위		
량	단 위	기호	비 교
전사마당의 세기	볼트/메터	V/m	= N/C
자기마당의 세기	암페아/메터	A/m	= N/Wb

"dm" , "dm²" , "dm³" Collected mathematical problems, Publishing house of advanced education, 1990

404. 둘레가 같은 평행4변형에서 대각선의 2제곱의 합이 최소인 것은 두 변이 어떤 관계일 때인가?

405. 직각3각형의 직각변들은 15dm와 20dm와 같다. 내접원의 중심으로부터 빗변에 세운 높이까지의 거리를 구하여라.

3) 1000000 m³ (=10⁹ cm³), 29200 dm³ (1m³ =
195분, 1500초 2) 9시간 3) 1800분, 43200초

9) Symbols of Korean Characters

The 6 characters arranged from 4-72 to 4-77 in KPS 9566-97 are emphasized characters, which are used most frequently in the publications of our country as the characters whose thickness and size are different from characters in Korean character syllable.

위대한 수령 김일성동지께서는 다음과 같이 교시하시였다.
• 《전민족이 한결같이 조국통일을 지상의 과제로 인정하고있는 이상 사상과 제도의 차이가 통일을 불가능하게 하는 조건으로는 될 수 없습니다.》 (《김일성저작집》 제35권, 346폐지)

김정일동지께서는 혁명사적지에 대한 해설을 들으신 다음 옛 모습 그대로 있는 사적건물들을 돌아 보시였다.

We propose to assign "Additional CJK Compatibility", new block since current "CJK Compatibility" is crammed.

"참고, 주의" are used frequently for reference and caution in manual.

Source: "Changdok V 3.0" manual,   1989

G 희랍문

희랍문을 입력한다.

[G 희랍문]명령을 선택하면 건반배치도가 희랍문건반배치도로 된다.

참고   건반배치도는 [보조]-[L 건반배치도 Ctrl+T]명령을 참고하시오.
희랍문건반배치도에 따라서 희랍문을 입력하면 된다.

② [B 블로크 Alt+3]명령을 선택한다.
③ 카솔을 움직여서 선택하려는 문자렬의 마지막위치까지 이동 해가면 문자렬이 블로크단위로 선택된다.
Alt + 3

주의   행끝에 개행기호가 없는 행에서 블로크처리를 진행하면 배치상태가 변경되므로 이 경우에 블로크처리를 피하는것이 좋다.

10) Example in KPS-9566

The examples printed in KPS-9566 are shown as follows:

22　　　　　　　　　　　　国规 9566

조선글 두바이트 부호표　　부록 2

		`	°	,	.	●	:	;	?	!	‥	…	~	〃	―
A1A0(2120)	A1A1	A1A2	A1A3	A1A4	A1A5	A1A6	A1A7	A1A8	A1A9	A1AA	A1AB	A1AC	A1AD	A1AE	A1AF
A1B0(2130)	—	―	/	\	│	‖	/	\	˙	˙	ʼ	`	¨	^	ˇ
	A1B0	A1B1	A1B2	A1B3	A1B4	A1B5	A1B6	A1B7	A1B8	A1B9	A1BA	A1BB	A1BC	A1BD	A1BE	A1BF
A1C0(2140)	˙	ˏ	˙	ˋ	⋮	ʃ	'	'	"	"	(	)	{	}	[	]
	A1C0	A1C1	A1C2	A1C3	A1C4	A1C5	A1C6	A1C7	A1C8	A1C9	A1CA	A1CB	A1CC	A1CD	A1CE	A1CF
A1D0(2150)	{	}	⟨	⟩	《	》	「	」	『	』	【	】	⌒	⌒	,	'
	A1D0	A1D1	A1D2	A1D3	A1D4	A1D5	A1D6	A1D7	A1D8	A1D9	A1DA	A1DB	A1DC	A1DD	A1DE	A1DF
A1E0(2160)	ˮ	"	⌒	⌣	⌐	⌣	⎵	⁓	⌣	⌣	⌃	⌄	⌐	⌐		
	A1E0	A1E1	A1E2	A1E3	A1E4	A1E5	A1E6	A1E7	A1E8	A1E9	A1EA	A1EB	A1EC	A1ED	A1EE	A1EF
A1F0(2170)	⌐	⌐	⌐	⌣												
	A1F0	A1F1	A1F2	A1F3	A1F4	A1F5	A1F6	A1F7	A1F8	A1F9	A1FA	A1FB	A1FC	A1FD	A1FE	
A2A0(2220)		+	−	±	×	÷	=	≠	<	>	≦	≧	∞	∴	♂	♀
		A2A1	A2A2	A2A3	A2A4	A2A5	A2A6	A2A7	A2A8	A2A9	A2AA	A2AB	A2AC	A2AD	A2AE	A2AF
A2B0(2230)	∠	⊥	⌒	∂	∇	≡	≒	≈	≪	≫	√	∽	∝	∵	∫	∬
	A2B0	A2B1	A2B2	A2B3	A2B4	A2B5	A2B6	A2B7	A2B8	A2B9	A2BA	A2BB	A2BC	A2BD	A2BE	A2BF
A2C0(2240)	§	∈	∋	⊆	⊇	⊂	⊃	∉	⊉	⊄	⊅	⊅	∪	∩	∧
	A2C0	A2C1	A2C2	A2C3	A2C4	A2C5	A2C6	A2C7	A2C8	A2C9	A2CA	A2CB	A2CC	A2CD	A2CE	A2CF
A2D0(2250)	∨	¬	⇒	⇔	∀	∃	Σ	#	&	*	@	§	※	☆	★	○
	A2D0	A2D1	A2D2	A2D3	A2D4	A2D5	A2D6	A2D7	A2D8	A2D9	A2DA	A2DB	A2DC	A2DD	A2DE	A2DF
A2E0(2260)	●	◎	◇	◆	□	■	△	▲	▽	▼	▷	◁	▶	◀	○	•
	A2E0	A2E1	A2E2	A2E3	A2E4	A2E5	A2E6	A2E7	A2E8	A2E9	A2EA	A2EB	A2EC	A2ED	A2EE	A2EF
A2F0(2270)	◆	▲	▲	▲	▲	⚑	⚑	♯	♭	♪	†	‡	¶	⊕	⊖	
	A2F0	A2F1	A2F2	A2F3	A2F4	A2F5	A2F6	A2F7	A2F8	A2F9	A2FA	A2FB	A2FC	A2FD	A2FE	

A7F0(2770)	0	t	2	3	4	5	6	7	8	9	½	⅓	⅔	¼	¾	
	A7F0	A7F1	A7F2	A7F3	A7F4	A7F5	A7F6	A7F7	A7F8	A7F9	A7FA	A7FB	A7FC	A7FD	A7FE	
A8A0(2820)		·	′	″	℃	°F	K	₩	$	¢	£	¥	%	‰	Å	cc
		A8A1	A8A2	A8A3	A8A4	A8A5	A8A6	A8A7	A8A8	A8A9	A8AA	A8AB	A8AC	A8AD	A8AE	A8AF
A8B0(2830)	m²	m³	cm	cm²	cm³	mm	mm²	mm³	dm	dm²	dm³	km	km²	km³	fm	nm
	A8B0	A8B1	A8B2	A8B3	A8B4	A8B5	A8B6	A8B7	A8B8	A8B9	A8BA	A8BB	A8BC	A8BD	A8BE	A8BF
A8C0(2840)	μm	m/s	m/s²	μg	mg	kg	pV	nV	μV	mV	kV	MV	pA	nA	μA	mA
	A8C0	A8C1	A8C2	A8C3	A8C4	A8C5	A8C6	A8C7	A8C8	A8C9	A8CA	A8CB	A8CC	A8CD	A8CE	A8CF
A8D0(2850)	kA	pW	nW	μW	mW	kW	MW	Ω	kΩ	MΩ	Hz	kHz	MHz	GHz	THz	V/m
	A8D0	A8D1	A8D2	A8D3	A8D4	A8D5	A8D6	A8D7	A8D8	A8D9	A8DA	A8DB	A8DC	A8DD	A8DE	A8DF
A8E0(2860)	A/m	ps	ns	μs	ms	pF	nF	μF	Pa	kPa	MPa	GPa	ℓ	μℓ	mℓ	dℓ
	A8E0	A8E1	A8E2	A8E3	A8E4	A8E5	A8E6	A8E7	A8E8	A8E9	A8EA	A8EB	A8EC	A8ED	A8EE	A8EF
A8F0(2870)	kℓ	gal	cal	kcal	rad	rad/s	rad/s²	Hg	Wb	dB	erg	eV	mol	HP	ha	
	A8F0	A8F1	A8F2	A8F3	A8F4	A8F5	A8F6	A8F7	A8F8	A8F9	A8FA	A8FB	A8FC	A8FD	A8FE	

ACA0(2C20)		✽	⊕	✪	☀	☂	☔	☁	❄	⚡	⚠	№	→	←	↑	↓
		ACA1	ACA2	ACA3	ACA4	ACA5	ACA6	ACA7	ACA8	ACA9	ACAA	ACAB	ACAC	ACAD	ACAE	ACAF
ACB0(2C30)	↗	↖	↘	↙	↔	↕	⇒	⇐	⇑	⇓	⇗	⇘	⇙	⇖	⇔	⇕
	ACB0	ACB1	ACB2	ACB3	ACB4	ACB5	ACB6	ACB7	ACB8	ACB9	ACBA	ACBB	ACBC	ACBD	ACBE	ACBF
ACC0(2C40)	→	←	↑	↓	↗	↖	↘	↙	↔	↕	♣	♥	♠	♦	〒	▽
	ACC0	ACC1	ACC2	ACC3	ACC4	ACC5	ACC6	ACC7	ACC8	ACC9	ACCA	ACCB	ACCC	ACCD	ACCE	ACCF
ACD0(2C50)	☎	☏	↵	☞	ⓗ	✂	☕	㉑	㉒	(2?)	(2?)	Co.	LTD	PTE	TEL	FAX
	ACD0	ACD1	ACD2	ACD3	ACD4	ACD5	ACD6	ACD7	ACD8	ACD9	ACDA	ACDB	ACDC	ACDD	ACDE	ACDF
ACE0(2C60)	IU															
	ACE0	ACE1	ACE2	ACE3	ACE4	ACE5	ACE6	ACE7	ACE8	ACE9	ACEA	ACEB	ACEC	ACED	ACEE	ACEF