

D MSL/Unicode Symbol Indexes

Introduction

Table D-1, the Master Symbol List, lists all of the characters available for the printers and their MSL index numbers. Table D-2, shows the characters contained in the MSL symbol collections. Table D-3, the Unicode Symbol List, lists all of the characters available for the printers and identifies their unicode index number. Table D-4 shows the characters contained in the unicode symbol collections.

Note

Printers released in 1998 and newer (the LaserJet 8000 and newer) contain the Euro character as character code 128 (hex 0x80). Earlier printers require an added solution to print the Euro character.

Table D-1. Master Symbol List - Basic Latin (Bit 63)

Symbol	MSL	Description	Symbol	MSL	Description
A	34	Uppercase A	a	67	Lowercase A
B	35	Uppercase B	b	68	Lowercase B
C	36	Uppercase C	c	69	Lowercase C
D	37	Uppercase D	d	70	Lowercase D
E	38	Uppercase E	e	71	Lowercase E
F	39	Uppercase F	f	72	Lowercase F
G	40	Uppercase G	g	73	Lowercase G
H	41	Uppercase H	h	74	Lowercase H
I	42	Uppercase I	i	75	Lowercase I
J	43	Uppercase J	j	76	Lowercase J
K	44	Uppercase K	k	77	Lowercase K
L	45	Uppercase L	l	78	Lowercase L
M	46	Uppercase M	m	79	Lowercase M
N	47	Uppercase N	n	80	Lowercase N
O	48	Uppercase O	o	81	Lowercase O
P	49	Uppercase P	p	82	Lowercase P
Q	50	Uppercase Q	q	83	Lowercase Q
R	51	Uppercase R	r	84	Lowercase R
S	52	Uppercase S	s	85	Lowercase S
T	53	Uppercase T	t	86	Lowercase T
U	54	Uppercase U	u	87	Lowercase U
V	55	Uppercase V	v	88	Lowercase V
W	56	Uppercase W	w	89	Lowercase W
X	57	Uppercase X	x	90	Lowercase X
Y	58	Uppercase Y	y	91	Lowercase Y
Z	59	Uppercase Z	z	92	Lowercase Z

Continued on next page

Table D-1. Master Symbol List - Basic Latin (Bit 63) (continued)

Symbol	MSL	Description	Symbol	MSL	Description
Á	161	Uppercase A Acute	á	133	Lowercase A Acute
À	99	Uppercase A Grave	à	137	Lowercase A Grave
Â	100	Uppercase A Circumflex	â	129	Lowercase A Circumflex
Ä	153	Uppercase A Dieresis	ä	141	Lowercase A Dieresis
Ã	162	Uppercase A Tilde	ã	163	Lowercase A Tilde
Å	145	Uppercase A Ring	å	149	Lowercase A Ring
Æ	148	Uppercase AE Diphthong	æ	152	Lowercase AE Diphthong
Ç	117	Uppercase C Cedilla	ç	118	Lowercase C Cedilla
Ð	164	Uppercase Eth, D-stroke	ð	165	Lowercase Eth
É	157	Uppercase E Acute	é	134	Lowercase E Acute
È	101	Uppercase E Grave	è	138	Lowercase E Grave
Ê	102	Uppercase E Circumflex	ê	130	Lowercase E Circumflex
Ë	103	Uppercase E Dieresis	ë	142	Lowercase E Dieresis
Í	166	Uppercase I Acute	í	150	Lowercase I Acute
Ì	167	Uppercase I Grave	ì	154	Lowercase I Grave
Î	104	Uppercase I Circumflex	î	146	Lowercase I Circumflex
Ï	105	Uppercase I Dieresis	ï	158	Lowercase I Dieresis
IJ	1107	Uppercase IJ Ligature	ij	1047	Lowercase IJ Ligature
Ĺ	1095	Uppercase L-Stroke	ł	1096	Lowercase L-Stroke
Ł	306	Uppercase L-Dot	ł	307	Lowercase L-Dot
Ñ	119	Uppercase N Tilde	ñ	120	Lowercase N Tilde
Ó	168	Uppercase O Acute	ó	135	Lowercase O Acute
Ò	169	Uppercase O Grave	ò	139	Lowercase O Grave
Ô	160	Uppercase O Circumflex	ô	131	Lowercase O Circumflex
Ö	155	Uppercase O Dieresis	ö	143	Lowercase O Dieresis
Õ	170	Uppercase O Tilde	õ	171	Lowercase O Tilde

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Table D-1. Master Symbol List - Basic Latin (Bit 63) (continued)

Symbol	MSL	Description	Symbol	MSL	Description
Æ	1091	Uppercase OE Ligature	æ	1090	Lowercase OE Ligature
Ø	147	Uppercase O Oblique	ø	151	Lowercase O Oblique
Š	172	Uppercase S Haček	š	173	Lowercase S Haček
Ú	174	Uppercase U Acute	ú	136	Lowercase U Acute
Û	111	Uppercase U Grave	ù	140	Lowercase U Grave
Û	112	Uppercase U Circumflex	û	132	Lowercase U Circumflex
Ü	156	Uppercase U Dieresis	ü	144	Lowercase U Dieresis
Ý	114	Uppercase Y Acute	ý	115	Lowercase Y Acute
ÿ	175	Uppercase Y Dieresis	ÿ	176	Lowercase Y Dieresis
Ž	1106	Uppercase Z Haček	ž	1031	Lowercase Z Haček
Þ	177	Uppercase Thorn	þ	178	Lowercase Thorn
´	317	Uppercase Acute	´	106	Lowercase Acute
`	318	Uppercase Grave	`	107	Lowercase Grave
^	319	Uppercase Circumflex	^	108	Lowercase Circumflex
¨	320	Uppercase Dieresis	¨	109	Lowercase Dieresis
˜	321	Uppercase Tilde	˜	110	Lowercase Tilde
ˇ	322	Uppercase Haček	ˇ	315	Lowercase Haček
˘	1087	Uppercase Breve	˘	1086	Lowercase Breve
˙	1045	Uppercase Dbl Acute	˙	1097	Lowercase Dbl Acute
˚	323	Uppercase Ring	˚	316	Lowercase Ring
˛	1089	Uppercase Overdot	˛	1088	Lowercase Overdot
˜	1085	Uppercase Macron	˜	1084	Lowercase Macron

Continued on next page

Table D-1. Master Symbol List - Basic Latin (Bit 63) (continued)

Symbol	MSL	Description	Symbol	MSL	Description
¸	199	Lowercase Cedilla	¸	330	Uppercase Cedilla
¸	1098	Lowercase Ogonek	¸	1030	Uppercase Ogonek
˙	179	Lowercase Middle Dot	ı	328	Lowercase Undotted I
ß	159	Lowercase Es-zet Ligature	’n	309	Lowercase Apostrophe-N
fl	1041	Lowercase FL Ligature	fi	1040	Lowercase FI Ligature
ffl	1044	Lowercase FFL Ligature	ffi	1043	Lowercase FFI Ligature
			ff	1042	Lowercase FF Ligature
	0	Space Code		1023	Thin Space
\$	4	Dollar Sign	#	3	Number Sign
&	6	Ampersand	%	5	Per Cent Sign
*	11	Asterisk	@	33	Commercial At Sign
.	15	Period	,	13	Comma, Decimal Separator
!	1	Exclamation Mark	¡	121	Inverted Exclamation Mark
?	32	Question Mark	¿	122	Inverted Question Mark
:	27	Colon	;	28	Semicolon
‘	66	Single Open Quote (6)	’	8	Single Close Quote (9)
“	1017	Double Open Quote (6)	”	1018	Double Close Quote (9)
‹	1092	Sngl lft point Ang Quote	›	1093	Sngl rt point Ang Quote
«	188	Dbl lft point Ang Quote	»	190	Dbl rt point Ang Quote
„	1067	Sngl Baseline Quote (9)	„	1019	Dbl Baseline Quote (9)
!	329	Neutral Single Quote	!	2	Neutral Double Quote

Continued on next page

Table D-1. Master Symbol List - Basic Latin (Bit 63) (continued)

Symbol	MSL	Description	Symbol	MSL	Description
(	9	Left Parenthesis	)	10	Right Parenthesis
[	60	Left Bracket	]	62	Right Bracket
{	93	Left Brace	}	95	Right Brace
-	14	Hyphen	-	195	Soft Hyphen
/	16	Solidus, Slash	\	61	Rev Solidus, Backslash
∴	302	Center Period	⋯	1028	Ellipsis
—	326	En Dash	—	325	Em Dash
	1021	En Space		1020	Em Space
0	17	Numeral Zero	1	18	Numeral One
2	19	Numeral Two	3	20	Numeral Three
4	21	Numeral Four	5	22	Numeral Five
6	23	Numeral Six	7	24	Numeral Seven
8	25	Numeral Eight	9	26	Numeral Nine
^a	186	Female Ordinal	^o	187	Male Ordinal
′	310	Prime	″	311	Double Prime
°	116	Degree Sign	ⁿ	332	Superior Lowercase N
⁰	1000	Superior Numeral 0	¹	200	Superior Numeral 1
²	197	Superior Numeral 2	³	198	Superior Numeral 3
⁴	1001	Superior Numeral 4	⁵	1002	Superior Numeral 5
⁶	1003	Superior Numeral 6	⁷	1004	Superior Numeral 7
⁸	1005	Superior Numeral 8	⁹	1006	Superior Numeral 9
½	185	Vulgar Fraction 1/2	¼	184	Vulgar Fraction 1/4

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Table D-1. Master Symbol List - Basic Latin (Bit 63) (continued)

Symbol	MSL	Description	Symbol	MSL	Description
$\frac{3}{4}$	182	Vulgar Fraction 3/4	$\frac{1}{2}$	324	Vulgar Fraction Bar
+	12	Plus Sign	-	183	Minus Sign
÷	202	Divide Sign	×	201	Multiply Sign
=	30	Equals Sign	±	191	Plus Over Minus Sign
¬	194	Not Sign	‰	1068	Per Mill Sign
¥	125	Yen Sign	£	124	Pound Sterling Sign
¢	128	Cent Sign	f	127	Florin Sign
¤	123	Currency Symbol	Pt	232	Pesetas
€	1069	Euro Sign	μ	180	Lowercase Mu, Micro
ℓ	308	Litre Symbol	†	312	Dagger Symbol
‡	327	Double Dagger Symbol	§	126	Section Mark
¶	181	Pilcrow, Paragraph	‰	1060	Care Of Symbol
™	313	Trademark Sign, Sup	®	196	Registered Sign, Sup
©	193	Copyright Sign, Sup	>	31	Greater Than Sign
<	29	Less Than Sign	^	63	ASCII Circumflex
~	96	1 Wavy Line Approx	R̄	1036	Prescription Sign
Ω	290	Uppercase Omega, Ohms	◦	1109	Small Open Bullet
•	331	Small Solid Bullet	◌	1110	Medium Open Bullet
●	209	Medium Solid Bullet	○	211	Large Open Bullet
●	1111	Large Solid Bullet	◻	1108	Small Open Box
■	305	Small Solid Box			

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Table D-1. Master Symbol List - Basic Latin (Bit 63) (continued)


















Symbol	MSL	Description	Symbol	MSL	Description
	189	Medium Solid Box		1094	Medium Open Box
	661	Large Solid Box		653	Large Open Box
	662	Solid Diamond		654	Open Diamond
	64	Underline, Underscore		94	Long Vertical Mark
	113	Overline, Overscore		192	Broken Vertical Mark
	314	Double Underline		97	Medium Shading
	1112	Visible Carriage Return		1113	Visible Tab
	1114	Visible Space		1115	Visible Soft Hyphen
	1116	Visible End-of-File			
<i>Continued on next page</i>					

Table D-1. Master Symbol List - East European (Bit 62)
(continued)

Symbol	MSL	Description	Symbol	MSL	Description
Ǻ	400	Uppercase A Breve	ǻ	401	Lowercase A Breve
Ą	404	Uppercase A Ogonek	ą	405	Lowercase A Ogonek
Ć	406	Uppercase C Acute	ć	407	Lowercase C Acute
Č	410	Uppercase C Haček	č	411	Lowercase C Haček
Ǻ	414	Uppercase D Haček	ǻ	415	Lowercase D Haček
Ǻ	416	Uppercase E Haček	ǻ	417	Lowercase E Haček
Ę	422	Uppercase E Ogonek	ę	423	Lowercase E Ogonek
Ł	440	Uppercase L Acute	ł	441	Lowercase L Acute
Ǻ	442	Uppercase L Haček	ǻ	443	Lowercase L Haček
Ń	446	Uppercase N Acute	ń	447	Lowercase N Acute
Ǻ	448	Uppercase N Haček	ǻ	449	Lowercase N Haček
Ǻ	452	Uppercase O Double Acute	ǻ	453	Lowercase O Double Acute
Ŕ	456	Uppercase R Acute	ŕ	457	Lowercase R Acute
Ř	458	Uppercase R Haček	ř	459	Lowercase R Haček
Ś	462	Uppercase S Acute	ś	463	Lowercase S Acute
Ş	1063	Uppercase S Cedilla	ş	1064	Lowercase S Cedilla
Ǻ	466	Uppercase T Haček	ǻ	467	Lowercase T Haček
Ț	468	Uppercase T Cedilla	ț	469	Lowercase T Cedilla
Ǻ	474	Uppercase U Double Acute	ǻ	475	Lowercase U Double Acute
Ů	476	Uppercase U Ring	ů	477	Lowercase U Ring
Ž	482	Uppercase Z Acute	ž	483	Lowercase Z Acute
Ż	484	Uppercase Z Overdot	ż	485	Lowercase Z Overdot
đ	342	Lowercase D-Stroke			

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Table D-1. Master Symbol List - Turkish (Bit 61) (continued)

Symbol	MSL	Description	Symbol	MSL	Description
Ğ	1061	Uppercase G Breve	ğ	1062	Lowercase G Breve
Ş	1063	Uppercase S Cedilla	ş	1064	Lowercase S Cedilla
İ	1065	Uppercase I Overdot			
<i>Continued on next page</i>					

Table D-1. Master Symbol List - Baltic/Nordic/Latin-6 (Bit 60)
(continued)

Symbol	MSL	Description	Symbol	MSL	Description
Ā	402	Uppercase A Macron	ā	403	Lowercase A Macron
Ą	404	Uppercase A Ogonek	ą	405	Lowercase A Ogonek
Ċ	406	Uppercase C Acute	ċ	407	Lowercase C Acute
Č	410	Uppercase C Haček	č	411	Lowercase C Haček
Ė	418	Uppercase E Overdot	ė	419	Lowercase E Overdot
Ē	420	Uppercase E Macron	ē	421	Lowercase E Macron
Ę	422	Uppercase E Ogonek	ę	423	Lowercase E Ogonek
Ġ	428	Uppercase G Cedilla	ġ	429	Lowercase G Cedilla
İ	486	Uppercase I Tilde	ı	487	Lowercase I Tilde
Ī	434	Uppercase I Macron	ī	435	Lowercase I Macron
Į	432	Uppercase I Ogonek	į	433	Lowercase I Ogonek
Ķ	438	Uppercase K Cedilla	ķ	439	Lowercase K Cedilla
Ļ	444	Uppercase L Cedilla	ļ	445	Lowercase L Cedilla
Ļ	1095	Uppercase L-Stroke	ļ	1096	Lowercase L-Stroke
Ń	446	Uppercase N Acute	ń	447	Lowercase N Acute
Ņ	450	Uppercase N Cedilla	ņ	451	Lowercase N Cedilla
Ŋ	340	Uppercase Eng	ŋ	341	Lowercase Eng
Ō	454	Uppercase O Macron	ō	455	Lowercase O Macron
Ŗ	460	Uppercase R Cedilla	ŗ	461	Lowercase R Cedilla
Ś	462	Uppercase S Acute	ś	463	Lowercase S Acute
Ŧ	338	Uppercase T-Stroke	ŧ	339	Lowercase T-Stroke
Ū	470	Uppercase U Tilde	ū	471	Lowercase U Tilde
Ū	478	Uppercase U Macron	ū	479	Lowercase U Macron
Ų	480	Uppercase U Ogonek	ų	481	Lowercase U Ogonek

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**Table D-1. Master Symbol List - Baltic/Nordic/Latin-6 (Bit 60)
(continued)**

Symbol	MSL	Description	Symbol	MSL	Description
Ž	482	Uppercase Z Acute	ž	483	Lowercase Z Acute
Ž	1106	Uppercase Z Haček	ž	1031	Lowercase Z Haček
Ž	484	Uppercase Z Overdot	ž	485	Lowercase Z Overdot
đ	342	Lowercase D-Stroke	ƙ	335	Lowercase Greenlandic Kra
ˇ	315	Lowercase Haček	˙	1088	Lowercase Overdot
˙	1098	Lowercase Ogonek			
Continued on next page					

Table D-1. Master Symbol List - Math (Bit 34) (continued)

Symbol	MSL	Description	Symbol	MSL	Description
Γ	505	Uppercase Greek Gamma	α	522	Lowercase Greek Alpha
Δ	506	Uppercase Greek Delta	β	523	Lowercase Greek Beta
Θ	507	Uppercase Greek Theta	γ	524	Lowercase Greek Gamma
Λ	508	Uppercase Greek Lambda	δ	525	Lowercase Greek Delta
Ξ	509	Uppercase Greek Xi	ϵ	526	Lowercase Greek Epsilon
Π	510	Uppercase Greek Pi	ζ	527	Lowercase Greek Zeta
Σ	511	Uppercase Greek Sigma	η	528	Lowercase Greek Eta
Υ	512	Uppercase Greek Upsilon	θ	529	Lowercase Greek Theta
Φ	513	Uppercase Greek Phi	ι	530	Lowercase Greek Iota
Ψ	514	Uppercase Greek Psi	κ	531	Lowercase Greek Kappa
Ω	515	Uppercase Greek Omega	λ	532	Lowercase Greek Lambda
∇	516	Nabla Symbol	μ	533	Lowercase Greek Mu
ς	518	Terminal Sigma	ν	534	Lowercase Greek Nu
∂	517	Partial Diff Symbol	ξ	535	Lowercase Greek Xi
ε	503	Alternate LC Epsilon	\omicron	536	Lowercase Greek Omicron
ϑ	546	Open LC Greek Theta	π	537	Lowercase Greek Pi
φ	547	Open LC Greek Phi	ρ	538	Lowercase Greek Rho
ϖ	548	Alternate LC Pi	σ	539	Lowercase Greek Sigma
f	637	LC Greek Digamma	τ	540	Lowercase Greek Tau
			υ	541	Lowercase Greek Upsilon
			ϕ	542	Lowercase Greek Phi
			χ	543	Lowercase Greek Chi
			ψ	544	Lowercase Greek Psi
			ω	545	Lowercase Greek Omega

Continued on next page

Table D-1. Master Symbol List - Math (Bit 34) (continued)

Symbol	MSL	Description	Symbol	MSL	Description
\oplus	575	Plus In Circle Symbol	\odot	576	Dot In Circle
\otimes	577	Times In Circle	\ominus	578	Minus In Circle
\oslash	579	Slash In Circle	\bigcirc	584	Large Open Circle
\emptyset	590	Empty Set Symbol	\circ	583	Funct. Composition Sym
\int	587	Integral Symbol	\oint	588	Curvilinear Integral Sym
\ni	663	Such That	\aleph	591	Hebrew Aleph
\beth	592	Hebrew Beth	\gimel	593	Hebrew Gimmel
\mathfrak{C}	594	Fraktur C	\mathfrak{I}	595	Fraktur I
\mathfrak{R}	596	Fraktur R	\mathfrak{Z}	597	Fraktur Z
e	502	Lowercase Italic E	\hbar	638	Planck's Constant/2 pi
\mathcal{L}	639	Laplace Transform Sym	\mathcal{P}	640	Power Set Symbol
\wp	641	Weierstraussian Symbol	\sum	642	Summation Symbol, Sigma
\Updownarrow	555	Up/Dn Arrow Dbl Stroke	\Leftrightarrow	556	Lft/Rt Arrow Dbl Stroke
\Uparrow	551	Up Arrow Dbl Stroke	\Rightarrow	552	Right Arrow Dbl Stroke
\parallel	605	Dbl Vertical Line, Comp	\Rightarrow	666	Dbl Horizontal Arrow Ext
\Downarrow	553	Down Arrow Dbl Stroke	\Leftarrow	554	Left Arrow Dbl Stroke
\Rrightarrow	557	Right Over Left Arrow	\Leftrightarrow	558	Left Over Right Arrow
\forall	561	For All Symbol	\exists	562	There Exists Symbol
\top	563	Top Symbol	\perp	564	Bottom Symbol
\dashv	585	Assertion Symbol	\vdash	586	Backwards Assertion Sym
\in	566	Element Of Symbol	\ni	567	Contains Symbol
\notin	568	Not Element Of Symbol	\cup	565	Set Union Symbol
\subset	569	Proper Subset Symbol	\supset	570	Proper Superset Symbol
$\not\subset$	571	Not Proper Subset Symbol	$\not\supset$	572	Not Proper Superset Sym
\subseteq	573	Subset Symbol	\supseteq	574	Superset Symbol
\wedge	580	Logical And Symbol	\vee	581	Logical Or Symbol
$\underline{\vee}$	582	Exclusive Or Symbol			

Continued on next page

Table D-1. Master Symbol List - Math (Bit 34) (continued)

Symbol	MSL	Description	Symbol	MSL	Description
$\{$	600	Top Left Brace	$\}$	610	Top Right Brace
$\}$	601	Middle Left Brace	$\}$	611	Middle Right Brace
$\}$	602	Bottom Left Brace	$\}$	612	Bottom Right Brace
$|$	613	Thick Vert Line, Comp	\oint	603	Middle Curv. Integral
\sum	604	Top Left Summation	\sum	616	Top Right Summation
\sum	606	Bottom Left Summation	\sum	618	Bottom Right Summation
\lceil	598	Top Left Bracket	\rceil	608	Top Right Bracket
\lfloor	599	Bottom Left Bracket	\rfloor	609	Bottom Right Bracket
$\sqrt{}$	615	Bottom Radical, Vert	$|$	614	Thin Vert Line, Comp
\sum	619	Top Diagonal Summation	\diagup	607	Bottom Diag. Summation
\sum	617	Middle Summation	\complement	667	Complement of #617
$\overline{}$	560	Overline, Composite	$\vec{}$	559	Vector Symbol
$\underline{}$	520	Underline, Composite	\rightarrow	665	Horizontal Arrow Ext
\nearrow	625	45° Arrow	\searrow	626	-45° Arrow
\nwarrow	627	-135° Arrow	\nearrow	628	135° Arrow
Δ	629	Up Open Triangle	\triangleright	630	Right Open Triangle
∇	631	Down Open Triangle	\triangleleft	632	Left Open Triangle
\llbracket	643	Left Double Bracket	\rrbracket	645	Right Double Bracket
\langle	621	Left Angle Bracket	\rangle	622	Right Angle Bracket
\lrcorner	646	Lft Top Round Corner	\rtcorner	655	Rt Top Round Corner
\llcorner	647	Lft Bottom Round Corner	\rtcorner	656	Rt Bottom Round Corner
\lceil	651	Top Lft Dbl Bracket	\rceil	659	Top Rt Dbl Bracket
\lfloor	652	Bottom Lft Dbl Bracket	\rfloor	660	Bottom Rt Dbl Bracket
$\ $	644	Middle Dbl Bracket			

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Table D-1. Master Symbol List - Math (Bit 34) (continued)

Symbol	MSL	Description	Symbol	MSL	Description
Ⓜ	623	Mask Symbol, Sup	SM	1034	Signature Mark, Sup
√	500	Radical Segment	∝	501	Proportional To Symbol
∴	504	Therefore	∵	521	Because
≠	519	Not Equal To Symbol	≇	550	Not Exactly Equal To
≈	549	Wavy/Straight Approx	≡	624	Wavy/2 Straight Approx
±	620	Minus Over Plus Sign	*	664	Math Asterisk Sign
≪	633	Much Less Than Sign	≫	634	Much Greater Than Sign
∴	635	Proportional To Symbol	△	636	Defined As Symbol
®	1100	Registered, Full, Serif	®	1103	Registered, Full, Sans
©	1101	Copyright, Full, Serif	©	1104	Copyright, Full, Sans
™	1102	Trademark, Full, Serif	™	1105	Trademark, Full, Sans
⊥	668	Right Angle Symbol	∠	589	Angle Symbol
↵	1099	Carriage Return Symbol	||	648	Ext Lrg Union/Product
∩	650	Top Large Intersection	∪	649	Bottom Lrg Union
⊏	658	Top Large Top Product	⊔	657	Bottom Lrg Bott Product
♥	205	Solid Heart	♦	206	Solid Diamond
♣	207	Solid Club	♠	208	Solid Spade
↕	220	Up/Down Arrow	↔	229	Left/Right Arrow
↑	224	Up Arrow	↓	225	Down Arrow
→	226	Right Arrow	←	227	Left Arrow
∞	292	Infinity Sign	∩	295	Set Intersection
≡	296	Exactly Equals	≈	301	2 Wavy Line Approx
≤	298	Less Than/Equal To	≥	297	Greater Than/Equal To
∫	299	Top Segment Integral			
∫	300	Bottom Segment Integral			

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Table D-1. Master Symbol List - Semi-Graphics (Bit 33)
(continued)



















































Symbol	MSL	Description	Symbol	MSL	Description
	236	Vertical 1		253	Horizontal 1
	243	Vertical 2		262	Horizontal 2
	275	Right 1 Down 1		248	Left 1 Down 1
	249	Right 1 Up 1		274	Left 1 Up 1
	270	Right 2 Down 1		241	Left 2 Down 1
	269	Right 2 Up 1		247	Left 2 Up 1
	271	Right 1 Down 2		240	Left 1 Down 2
	268	Right 1 Up 2		246	Left 1 Up 2
	258	Right 2 Down 2		244	Left 2 Down 2
	257	Right 2 Up 2		245	Left 2 Up 2
	252	Right 1 Vertical 1		237	Left 1 Vertical 1
	255	Right 2 Vertical 1		238	Left 2 Vertical 1
	256	Right 1 Vertical 2		239	Left 1 Vertical 2
	261	Right 2 Vertical 2		242	Left 2 Vertical 2
	251	Horizontal 1 Down 1		267	Horizontal 1 Down 2
	254	Horizontal 1 Vertical 1		272	Horizontal 1 Vertical 2
	250	Horizontal 1 Up 1		265	Horizontal 1 Up 2
	266	Horizontal 2 Down 1		260	Horizontal 2 Down 2
	273	Horizontal 2 Vertical 1		263	Horizontal 2 Vertical 2
	264	Horizontal 2 Up 1		259	Horizontal 2 Up 2
	234	Light Shading		97	Medium Shading
	235	Dark Shading		276	Solid Full Rectangle
	278	Left ½ Solid Rectangle		277	Bottom ½ Solid Rectangle
	279	Right ½ Solid Rectangle		280	Top ½ Solid Rectangle
	210	Large Solid Sq/Open Dot		212	Large Solid Sq/Open Ring
Continued on next page					

Table D-1. Master Symbol List - Semi-Graphics (Bit 33)
(continued)









































Symbol	MSL	Description	Symbol	MSL	Description
	203	Open Smiling Face		204	Solid Smiling Face
	205	Solid Heart		206	Solid Diamond
	207	Solid Club		208	Solid Spade
	213	Male Symbol		214	Female Symbol
	215	Musical Note		216	Pair Of Musical Notes
	217	Compass, 8 Pointed Sun		333	Home Plate
	331	Small Solid Bullet		1109	Small Open Bullet
	209	Medium Solid Bullet		1110	Medium Open Bullet
	1111	Large Solid Bullet		211	Large Open Bullet
	305	Small Solid Box		1108	Small Open Box
	189	Medium Solid Box		1094	Medium Open Box
	64	Underline, Underscore		113	Overline, Overscore
	94	Long Vertical Mark		192	Broken Vertical Mark
	314	Double Underline		222	Thick Horizontal Mark
	230	Up Solid Arrowhead		231	Down Solid Arrowhead
	218	Right Solid Arrowhead		219	Left Solid Arrowhead
	220	Up/Down Arrow		229	Left/Right Arrow
	224	Up Arrow		225	Down Arrow
	226	Right Arrow		227	Left Arrow
	221	Double Exclamation Mark		223	Up/Down Arrow Baseline
<i>Continued on next page</i>					

Table D-1. Master Symbol List - Semi-Graphics (Bit 33)
(continued)

Symbol	MSL	Description	Symbol	MSL	Description
α	281	Lowercase Greek Alpha	Γ	283	Uppercase Greek Gamma
π	284	Lowercase Greek Pi	Σ	285	Uppercase Greek Sigma
σ	286	Lowercase Greek Sigma	τ	287	Lowercase Greek Tau
Φ	288	Uppercase Greek Phi	Θ	289	Uppercase Greek Theta
Ω	290	Uppercase Omega, Ohms	δ	291	Lowercase Greek Delta
∞	292	Infinity Sign	ϕ	293	Lowercase Greek Phi
ϵ	294	Lowercase Greek Epsilon	\cap	295	Set Intersection
\equiv	296	Exactly Equals	$\sqrt{}$	303	Radical Symbol
n	332	Superior Lowercase N	\approx	301	2 Wavy Line Approx
\leq	298	Less Than/Equal To	\geq	297	Greater Than/Equal To
\int	299	Top Segment Integral	\lceil	228	Tick Up at Left
\int	300	Bottom Segment Integral	\rfloor	233	Tick Down at Left
Continued on next page					

Table D-2. MSL Symbol Collections

Basic Latin Collection (Bit 63)

[illegible]

Note: the shaded characters are internal printer symbols and do not need to be downloaded. They are always present in the printer. These symbols are used for both serif or sans serif fonts.

East European (Bit 62)

Ā Ą Ć Č Ď Ě Ė Ħ Ĺ Ń Ň Ő Ó Ŕ Š Ś Š Ţ Ť Ũ Ű Ź Ż đ
ā ā ć č ď ě ė ħ ľ ń ñ ő ó ŕ š ś š ť ț ũ ű ź ż

Continued on next page

Table D-2. MSL Symbol Collections (continued)

Turkish (Bit 61)

Ğ ğ Ş ş İ

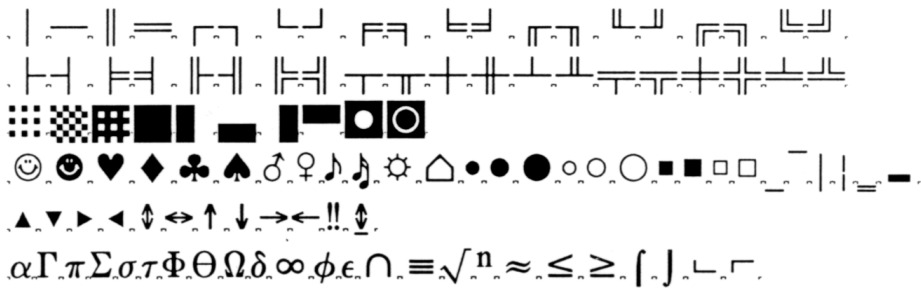
Math Collection (Bit 34)

[illegible]

Continued on next page

Table D-2. MSL Symbol Collections (continued)

Semi-Graphic Collection (Bit 33)



Dingbat Collection (Bit 32)

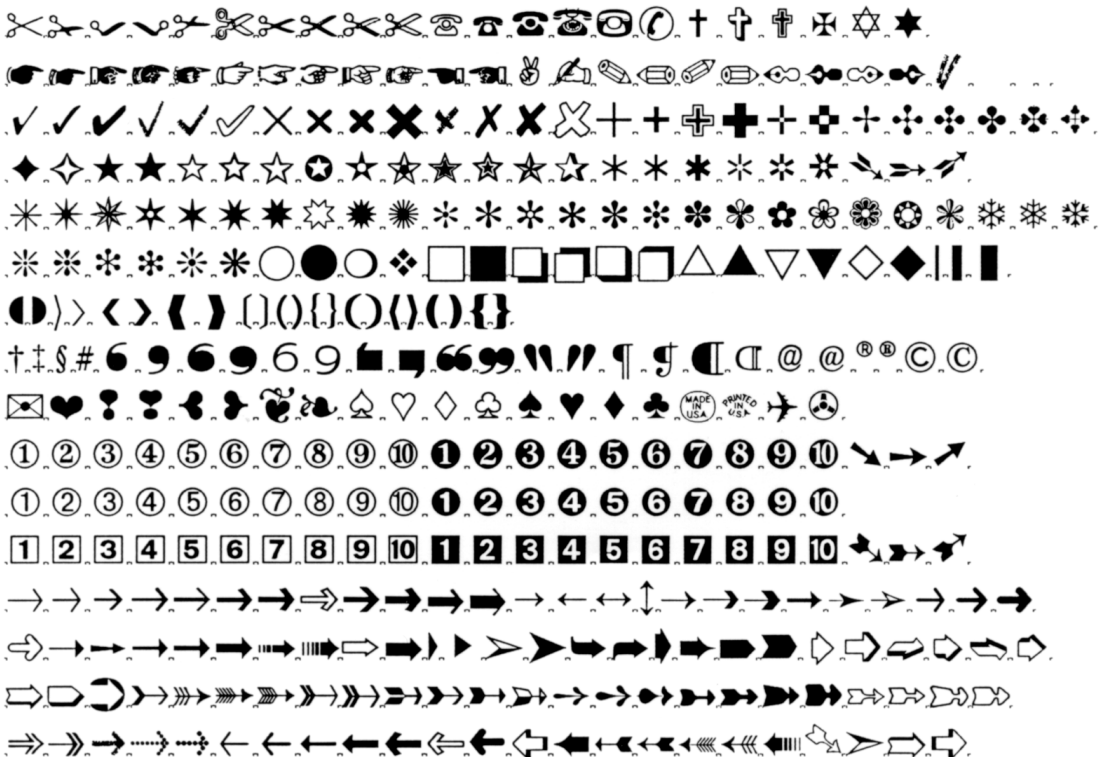


Table D-2. MSL Symbol Collections (continued)

Turkish (Bit 61)

 $\check{G}_{\check{g}}\S_{\S}\dot{I}$

Baltic/Nordic/Latin 6 (Bit 60)

Ā ĀĆ Č Ē ĒĒ Ğ Ĩ Ī Ĳ Ļ Ľ Ĺ Ń Ņ Ñ Ő Š Ŧ Ũ Ū Ú Ž ž ž
ā āć č ē ēē ģ ī īī ķ ļ ļļ ł ń ņ ñ ő őő š ŧ ů ū ú ž žž

Math Collection (Bit 34)

Γ Δ Θ Λ Ξ Π Σ Τ Φ Ψ Ω ∇ ζ δ ε ϑ ϕ ϖ ϑ
 α β γ δ ε ζ η θ ι κ λ μ ν ξ ο π ρ σ τ υ φ χ ψ ω
 ⊕ ⊙ ⊗ ⊖ ⊗ ⊙ ⊘ ∫ ∫ ∫ ∫ ∫ ∫ ∫ ∫ ∫ ∫
 ⇕ ⇔ ⇑ ⇒ ∥ = ⇓ ⇐ ⇨ ⇩ ∀ ∃ T ⊥ ⊥ ⊥
 ∈ ∃ ∉ ∪ ⊂ ⊃ ∅ ∅ ⊆ ⊇ ∧ ∨ √
 { } [] () φ ∇ ∇ ∇ ∇ ∇ ∇ ∇ ∇ ∇ ∇
 ↗ ↘ ↙ ↚ Δ ▹ ▸ ▹ ▹ [] ⟨ ⟩ ∩ ∪ ∩ ∩ ∩ ∩
 ⊗SM √ ∞ ∴ ∴ ≠ ≠ ≈ ≅ ≅ ∓ * ≪ ≫ ∴ ∴
 ® ® © © ™ ™ ⊥ ∠ ← ∣ ∣ ∣ ∣ ∣
 ♥ ♦ ♣ ♠ ⇕ ⇔ ⇑ ⇓ → ← ∞ ∩ ≡ ≈ ≤ ≥ []

Table D-3. Unicode Symbol List - ASCII (Bit 31)

Sym	Unicode Description	Sym	Unicode Description
A	0x0041 Uppercase A	a	0x0061 Lowercase A
B	0x0042 Uppercase B	b	0x0062 Lowercase B
C	0x0043 Uppercase C	c	0x0063 Lowercase C
D	0x0044 Uppercase D	d	0x0064 Lowercase D
E	0x0045 Uppercase E	e	0x0065 Lowercase E
F	0x0046 Uppercase F	f	0x0066 Lowercase F
G	0x0047 Uppercase G	g	0x0067 Lowercase G
H	0x0048 Uppercase H	h	0x0068 Lowercase H
I	0x0049 Uppercase I	i	0x0069 Lowercase I
J	0x004a Uppercase J	j	0x006a Lowercase J
K	0x004b Uppercase K	k	0x006b Lowercase K
L	0x004c Uppercase L	l	0x006c Lowercase L
M	0x004d Uppercase M	m	0x006d Lowercase M
N	0x004e Uppercase N	n	0x006e Lowercase N
O	0x004f Uppercase O	o	0x006f Lowercase O
P	0x0050 Uppercase P	p	0x0070 Lowercase P
Q	0x0051 Uppercase Q	q	0x0071 Lowercase Q
R	0x0052 Uppercase R	r	0x0072 Lowercase R
S	0x0053 Uppercase S	s	0x0073 Lowercase S
T	0x0054 Uppercase T	t	0x0074 Lowercase T
U	0x0055 Uppercase U	u	0x0075 Lowercase U
V	0x0056 Uppercase V	v	0x0076 Lowercase V
W	0x0057 Uppercase W	w	0x0077 Lowercase W
X	0x0058 Uppercase X	x	0x0078 Lowercase X
Y	0x0059 Uppercase Y	y	0x0079 Lowercase Y
Z	0x005a Uppercase Z	z	0x007a Lowercase Z

Table D-3. Unicode Symbol List - ASCII (Bit 31) (continued)


Sym	Unicode Description	Sym	Unicode Description
\$	0x0024 Dollar Sign	#	0x0023 Number Sign
&	0x0026 Ampersand	%	0x0025 Per Cent Sign
*	0x002a Asterisk	@	0x0040 Commercial At Sign
.	0x002e Period	,	0x002c Comma, Decimal Separator
!	0x0021 Exclamation Mark	?	0x003f Question Mark
:	0x003a Colon	;	0x003b Semicolon
'	0x2018 Single Open Quote (6)	'	0x2019 Single Close Quote (9)
-	0x002d Hyphen	`	0x0060 Lowercase Grave
'	0x0027 Neutral Single Quote	"	0x0022 Neutral Double Quote
(	0x0028 Left Parenthesis	)	0x0029 Right Parenthesis
[	0x005b Left Bracket	]	0x005d Right Bracket
{	0x007b Left Brace	}	0x007d Right Brace
/	0x002f Solidus, Slash	\	0x005c Rev Solidus, Backslash
0	0x0030 Numeral Zero	1	0x0031 Numeral One
2	0x0032 Numeral Two	3	0x0033 Numeral Three
4	0x0034 Numeral Four	5	0x0035 Numeral Five
6	0x0036 Numeral Six	7	0x0037 Numeral Seven
8	0x0038 Numeral Eight	9	0x0039 Numeral Nine
+	0x002b Plus Sign	=	0x003d Equals Sign
<	0x003c Less Than Sign	>	0x003e Greater Than Sign
^	0x005e ASCII Circumflex	^	0x02c6 Lowercase Circumflex
~	0x007e 1 Wavy Line Approx	~	0x02dc Lowercase Tilde
|	0x007c Long Vertical Mark	_	0x005f Underline, Underscore
	0x2592 Medium Shading		

Table D-3. Unicode Symbol List - Latin 1 (Bit 30) (continued)

Sym	Unicode	Description	Sym	Unicode	Description
À	0x00c0	Uppercase A Grave	à	0x00e0	Lowercase A Grave
Á	0x00c1	Uppercase A Acute	á	0x00e1	Lowercase A Acute
Â	0x00c2	Uppercase A Circum	â	0x00e2	Lowercase A Circum
Ã	0x00c3	Uppercase A Tilde	ã	0x00e3	Lowercase A Tilde
Ä	0x00c4	Uppercase A Dieresis	ä	0x00e4	Lowercase A Dieresis
Å	0x00c5	Uppercase A Ring	å	0x00e5	Lowercase A Ring
Æ	0x00c6	Uppercase AE	æ	0x00e6	Lowercase AE
Ç	0x00c7	Uppercase C Cedilla	ç	0x00e7	Lowercase C Cedilla
Ð	0x00d0	Uppercase Eth	ð	0x00f0	Lowercase Eth
È	0x00c8	Uppercase E Grave	è	0x00e8	Lowercase E Grave
É	0x00c9	Uppercase E Acute	é	0x00e9	Lowercase E Acute
Ê	0x00ca	Uppercase E Circum	ê	0x00ea	Lowercase E Circum
Ë	0x00cb	Uppercase E Dieresis	ë	0x00eb	Lowercase E Dieresis
Ì	0x00cc	Uppercase I Grave	ì	0x00ec	Lowercase I Grave
Í	0x00cd	Uppercase I Acute	í	0x00ed	Lowercase I Acute
Î	0x00ce	Uppercase I Circum	î	0x00ee	Lowercase I Circum
Ï	0x00cf	Uppercase I Dieresis	ï	0x00ef	Lowercase I Dieresis
Ñ	0x00d1	Uppercase N Tilde	ñ	0x00f1	Lowercase N Tilde
Ò	0x00d2	Uppercase O Grave	ò	0x00f2	Lowercase O Grave
Ó	0x00d3	Uppercase O Acute	ó	0x00f3	Lowercase O Acute
Ô	0x00d4	Uppercase O Circum	ô	0x00f4	Lowercase O Circum
Õ	0x00d5	Uppercase O Tilde	õ	0x00f5	Lowercase O Tilde
Ö	0x00d6	Uppercase O Dieresis	ö	0x00f6	Lowercase O Dieresis
Ø	0x00d8	Uppercase O Oblique	ø	0x00f8	Lowercase O Oblique
Š	0x0160	Uppercase S Haček	š	0x0161	Lowercase S Haček
Ù	0x00d9	Uppercase U Grave	ù	0x00f9	Lowercase U Grave

Table D-3. Unicode Symbol List - Latin 1 (Bit 30) (continued)

Sym	Unicode	Description	Sym	Unicode	Description
Ú	0x00da	Uppercase U Acute	ú	0x00fa	Lowercase U Acute
Û	0x00db	Uppercase U Circum	û	0x00fb	Lowercase U Circum
Ü	0x00dc	Uppercase U Dieresis	ü	0x00fc	Lowercase U Dieresis
Ý	0x00dd	Uppercase Y Acute	ý	0x00fd	Lowercase Y Acute
ÿ	0x0178	Uppercase Y Dieresis	ÿ	0x00ff	Lowercase Y Dieresis
Þ	0x00de	Uppercase Thorn	þ	0x00fe	Lowercase Thorn
¡	0x00a1	Inverted Exclamation	ß	0x00df	Lowercase Es-zet
¬	0x00ad	Soft Hyphen	¿	0x00bf	Inverted Question
«	0x00ab	Dbl lft pt Ang Quote	∴	0x2219	Center Period
ª	0x00aa	Female Ordinal	»	0x00bb	Dbl rt pt Ang Quote
§	0x00a7	Section Mark	º	0x00ba	Male Ordinal
©	0x00a9	Copyright Sign	¶	0x00b6	Pilcrow, Paragraph
¢	0x00a2	Cent Sign	®	0x00ae	Registered Sign
¤	0x00a4	Currency Symbol	£	0x00a3	Pound Sterling Sign
ƒ	0x0192	Florin Sign	¥	0x00a5	Yen Sign
´	0x00b4	Lowercase Acute	€	0x20ac	Euro Sign
±	0x00b1	Plus Over Minus Sign	¨	0x00a8	Lowercase Dieresis
÷	0x00f7	Divide Sign	¸	0x00b8	Lowercase Cedilla
°	0x00b0	Degree Sign	×	0x00d7	Multiply Sign
¹	0x00b9	Superior Numeral 1	¬	0x00ac	Not Sign
²	0x00b2	Superior Numeral 2	µ	0x00b5	Lowercase Mu, Micro
³	0x00b3	Superior Numeral 3	¼	0x00bc	Vulgar Fraction 1/4
‡	0x00a6	Broken Vertical Mark	½	0x00bd	Vulgar Fraction 1/2
			¾	0x00be	Vulgar Fraction 3/4

Table D-3. Unicode Symbol List - Latin 2 (Bit 29) (continued)

Sym	Unicode	Description	Sym	Unicode	Description
Á	0x00c1	Uppercase A Acute	á	0x00e1	Lowercase A Acute
Â	0x00c2	Uppercase A Circum	â	0x00e2	Lowercase A Circum
Ä	0x00c4	Uppercase A Dieresis	ä	0x00e4	Lowercase A Dieresis
Å	0x0102	Uppercase A Breve	å	0x0103	Lowercase A Breve
Ą	0x0104	Uppercase A Ogonek	ą	0x0105	Lowercase A Ogonek
Ç	0x00c7	Uppercase C Cedilla	ç	0x00e7	Lowercase C Cedilla
Ć	0x0106	Uppercase C Acute	ć	0x0107	Lowercase C Acute
Č	0x010c	Uppercase C Haček	č	0x010d	Lowercase C Haček
Ď	0x010e	Uppercase D Haček	ď	0x010f	Lowercase D Haček
Đ	0x0110	Uppercase D-Stroke	đ	0x0111	Lowercase D-Stroke
É	0x00c9	Uppercase E Acute	é	0x00e9	Lowercase E Acute
Ê	0x00cb	Uppercase E Dieresis	ê	0x00eb	Lowercase E Dieresis
Ę	0x0118	Uppercase E Ogonek	ę	0x0119	Lowercase E Ogonek
Ě	0x011a	Uppercase E Haček	ě	0x011b	Lowercase E Haček
Í	0x00cd	Uppercase I Acute	í	0x00ed	Lowercase I Acute
Î	0x00ce	Uppercase I Circum	î	0x00ee	Lowercase I Circum
Ĺ	0x0139	Uppercase L Acute	ĺ	0x013a	Lowercase L Acute
Ľ	0x013d	Uppercase L Haček	ľ	0x013e	Lowercase L Haček
Ł	0x0141	Uppercase L-Stroke	ł	0x0142	Lowercase L-Stroke
Ń	0x0143	Uppercase N Acute	ń	0x0144	Lowercase N Acute
Ň	0x0147	Uppercase N Haček	ň	0x0148	Lowercase N Haček
Ó	0x00d3	Uppercase O Acute	ó	0x00f3	Lowercase O Acute
Ô	0x00d4	Uppercase O Circum	ô	0x00f4	Lowercase O Circum
Ö	0x00d6	Uppercase O Dieresis	ö	0x00f6	Lowercase O Dieresis
Ő	0x0150	Uppercase O Dbl Acute	ő	0x0151	Lowercase O Dbl Acute
Ř	0x0154	Uppercase R Acute	ř	0x0155	Lowercase R Acute

Table D-3. Unicode Symbol List - Latin 2 (Bit 29) (continued)

Sym	Unicode Description	Sym	Unicode Description
Ř	0x0158 Uppercase R Haček	ř	0x0159 Lowercase R Haček
Ś	0x015a Uppercase S Acute	ś	0x015b Lowercase S Acute
Ş	0x015e Uppercase S Cedilla	ş	0x015f Lowercase S Cedilla
Š	0x0160 Uppercase S Haček	š	0x0161 Lowercase S Haček
Ť	0x0162 Uppercase T Cedilla	ť	0x0163 Lowercase T Cedilla
Ț	0x0164 Uppercase T Haček	ț	0x0165 Lowercase T Haček
Ú	0x00da Uppercase U Acute	ú	0x00fa Lowercase U Acute
Ü	0x00dc Uppercase U Dieresis	ü	0x00fc Lowercase U Dieresis
Û	0x016e Uppercase U Ring	û	0x016f Lowercase U Ring
Ů	0x0170 Uppercase U Dbl Acute	ů	0x0171 Lowercase U Dbl Acute
Ý	0x00dd Uppercase Y Acute	ý	0x00fd Lowercase Y Acute
Ž	0x0179 Uppercase Z Acute	ž	0x017a Lowercase Z Acute
Ẑ	0x017b Uppercase Z Overdot	ẑ	0x017c Lowercase Z Overdot
Ž	0x017d Uppercase Z Haček	ž	0x017e Lowercase Z Haček
ß	0x00df Lowercase Es-zet	ß	0x00df Lowercase Es-zet
ˆ	0x00ad Soft Hyphen	ˆ	0x00ad Soft Hyphen
«	0x00ab Dbl lft pt Ang Quote	»	0x00bb Dbl rt pt Ang Quote
¨	0x00a8 Lowercase Dieresis	¨	0x00b4 Lowercase Acute
¸	0x00b8 Lowercase Cedilla	¸	0x02c7 Lowercase Haček
˘	0x02d8 Lowercase Breve	˘	0x02d9 Lowercase Overdot
˙	0x02db Lowercase Ogonek	˙	0x02dd Lowercase Dbl Acute
°	0x00b0 Degree Sign	μ	0x00b5 Lowercase Mu, Micro
×	0x00d7 Multiply Sign	÷	0x00f7 Divide Sign
±	0x00b1 Plus Over Minus Sign	¬	0x00ac Not Sign
¤	0x00a4 Currency Symbol	§	0x00a7 Section Mark
‡	0x00a6 Broken Vertical Mark		

Table D-3. Unicode Symbol List - Latin 5 (Bit 28) (continued)

Sym	Unicode	Description	Sym	Unicode	Description
À	0x00c0	Uppercase A Grave	à	0x00e0	Lowercase A Grave
Á	0x00c1	Uppercase A Acute	á	0x00e1	Lowercase A Acute
Â	0x00c2	Uppercase A Circum	â	0x00e2	Lowercase A Circum
Ã	0x00c3	Uppercase A Tilde	ã	0x00e3	Lowercase A Tilde
Ä	0x00c4	Uppercase A Dieresis	ä	0x00e4	Lowercase A Dieresis
Å	0x00c5	Uppercase A Ring	å	0x00e5	Lowercase A Ring
Æ	0x00c6	Uppercase AE	æ	0x00e6	Lowercase AE
Ç	0x00c7	Uppercase C Cedilla	ç	0x00e7	Lowercase C Cedilla
È	0x00c8	Uppercase E Grave	è	0x00e8	Lowercase E Grave
É	0x00c9	Uppercase E Acute	é	0x00e9	Lowercase E Acute
Ê	0x00ca	Uppercase E Circum	ê	0x00ea	Lowercase E Circum
Ë	0x00cb	Uppercase E Dieresis	ë	0x00eb	Lowercase E Dieresis
Ĝ	0x011e	Uppercase G Breve	ĝ	0x011f	Lowercase G Breve
Ì	0x00cc	Uppercase I Grave	ì	0x00ec	Lowercase I Grave
Í	0x00cd	Uppercase I Acute	í	0x00ed	Lowercase I Acute
Î	0x00ce	Uppercase I Circum	î	0x00ee	Lowercase I Circum
Ï	0x00cf	Uppercase I Dieresis	ï	0x00ef	Lowercase I Dieresis
Ĭ	0x0130	Uppercase I Overdot	ĭ	0x0131	Lowercase Undotted I
Ñ	0x00d1	Uppercase N Tilde	ñ	0x00f1	Lowercase N Tilde
Ò	0x00d2	Uppercase O Grave	ò	0x00f2	Lowercase O Grave
Ó	0x00d3	Uppercase O Acute	ó	0x00f3	Lowercase O Acute
Ô	0x00d4	Uppercase O Circum	ô	0x00f4	Lowercase O Circum
Õ	0x00d5	Uppercase O Tilde	õ	0x00f5	Lowercase O Tilde
Ö	0x00d6	Uppercase O Dieresis	ö	0x00f6	Lowercase O Dieresis
Ø	0x00d8	Uppercase O Oblique	ø	0x00f8	Lowercase O Oblique
Š	0x015e	Uppercase S Cedilla	š	0x015f	Lowercase S Cedilla

Table D-3. Unicode Symbol List - Latin 5 (Bit 28) (continued)

Sym	Unicode Description	Sym	Unicode Description
Š	0x0160 Uppercase S Haček	š	0x0161 Lowercase S Haček
Ù	0x00d9 Uppercase U Grave	ù	0x00f9 Lowercase U Grave
Ú	0x00da Uppercase U Acute	ú	0x00fa Lowercase U Acute
Û	0x00db Uppercase U Circum	û	0x00fb Lowercase U Circum
Ü	0x00dc Uppercase U Dieresis	ü	0x00fc Lowercase U Dieresis
Ÿ	0x0178 Uppercase Y Dieresis	ÿ	0x00ff Lowercase Y Dieresis
¡	0x00a1 Inverted Exclamation	ß	0x00df Lowercase Es-zet
–	0x00ad Soft Hyphen	¿	0x00bf Inverted Question
«	0x00ab Dbl lft pt Ang Quote	∴	0x2219 Center Period
ª	0x00aa Female Ordinal	»	0x00bb Dbl rt pt Ang Quote
§	0x00a7 Section Mark	º	0x00ba Male Ordinal
©	0x00a9 Copyright Sign	¶	0x00b6 Pilcrow, Paragraph
¢	0x00a2 Cent Sign	®	0x00ae Registered Sign
¤	0x00a4 Currency Symbol	£	0x00a3 Pound Sterling Sign
ƒ	0x0192 Florin Sign	¥	0x00a5 Yen Sign
´	0x00b4 Lowercase Acute	¨	0x00a8 Lowercase Dieresis
±	0x00b1 Plus Over Minus Sign	¸	0x00b8 Lowercase Cedilla
÷	0x00f7 Divide Sign	×	0x00d7 Multiply Sign
°	0x00b0 Degree Sign	¬	0x00ac Not Sign
¹	0x00b9 Superior Numeral 1	μ	0x00b5 Lowercase Mu, Micro
²	0x00b2 Superior Numeral 2	¼	0x00bc Vulgar Fraction 1/4
³	0x00b3 Superior Numeral 3	½	0x00bd Vulgar Fraction 1/2
‡	0x00a6 Broken Vertical Mark	¾	0x00be Vulgar Fraction 3/4

Table D-3. Unicode Symbol List - Latin 6 (Bit 20) (continued)

Sym	Unicode	Description	Sym	Unicode	Description
Á	0x00c1	Uppercase A Acute	á	0x00e1	Lowercase A Acute
Â	0x00c2	Uppercase A Circum	â	0x00e2	Lowercase A Circum
Ä	0x00c4	Uppercase A Dieresis	ä	0x00e4	Lowercase A Dieresis
Ã	0x00c3	Uppercase A Tilde	ã	0x00e3	Lowercase A Tilde
Å	0x00c5	Uppercase A Ring	å	0x00e5	Lowercase A Ring
Ā	0x0100	Uppercase A Macron	ā	0x0101	Lowercase A Macron
Ą	0x0104	Uppercase A Ogonek	ą	0x0105	Lowercase A Ogonek
Æ	0x00c6	Uppercase AE	æ	0x00e6	Lowercase AE
Ć	0x0106	Uppercase C Acute	ć	0x0107	Lowercase C Acute
Č	0x010c	Uppercase C Haček	č	0x010d	Lowercase C Haček
Ð	0x0110	Uppercase D-Stroke	ð	0x0111	Lowercase D-Stroke
Ð	0x00d0	Uppercase Eth	ð	0x00f0	Lowercase Eth
É	0x00c9	Uppercase E Acute	é	0x00e9	Lowercase E Acute
Ë	0x00cb	Uppercase E Dieresis	ë	0x00eb	Lowercase E Dieresis
Ê	0x0116	Uppercase E Overdot	ê	0x0117	Lowercase E Overdot
Ē	0x0112	Uppercase E Macron	ē	0x0113	Lowercase E Macron
Ę	0x0118	Uppercase E Ogonek	ę	0x0119	Lowercase E Ogonek
Ġ	0x0122	Uppercase G Cedilla	ġ	0x0123	Lowercase G Cedilla
Í	0x00cd	Uppercase I Acute	í	0x00ed	Lowercase I Acute
Î	0x00ce	Uppercase I Circum	î	0x00ee	Lowercase I Circum
Ï	0x00cf	Uppercase I Dieresis	ï	0x00ef	Lowercase I Dieresis
Ĩ	0x0128	Uppercase I Tilde	ĩ	0x0129	Lowercase I Tilde
Ī	0x012a	Uppercase I Macron	ī	0x012b	Lowercase I Macron
Į	0x012e	Uppercase I Ogonek	į	0x012f	Lowercase I Ogonek
Ķ	0x0136	Uppercase K Cedilla	ķ	0x0137	Lowercase K Cedilla
Ĺ	0x013b	Uppercase L Cedilla	ļ	0x013c	Lowercase L Cedilla

Table D-3. Unicode Symbol List - Latin 6 (Bit 20) (continued)

Sym	Unicode	Description	Sym	Unicode	Description
Ł	0x0141	Uppercase L-Stroke	ł	0x0142	Lowercase L-Stroke
Ń	0x0143	Uppercase N Acute	ń	0x0144	Lowercase N Acute
Ñ	0x0145	Uppercase N Cedilla	ñ	0x0146	Lowercase N Cedilla
Ŋ	0x014a	Uppercase Eng	ŋ	0x014b	Lowercase Eng
Ó	0x00d3	Uppercase O Acute	ó	0x00f3	Lowercase O Acute
Ô	0x00d4	Uppercase O Circum	ô	0x00f4	Lowercase O Circum
Ö	0x00d6	Uppercase O Dieresis	ö	0x00f6	Lowercase O Dieresis
Õ	0x00d5	Uppercase O Tilde	õ	0x00f5	Lowercase O Tilde
Ȫ	0x014c	Uppercase O Macron	ȫ	0x014d	Lowercase O Macron
Ø	0x00d8	Uppercase O Oblique	ø	0x00f8	Lowercase O Oblique
Ŕ	0x0156	Uppercase R Cedilla	ŗ	0x0157	Lowercase R Cedilla
Ś	0x015a	Uppercase S Acute	ś	0x015b	Lowercase S Acute
Š	0x0160	Uppercase S Haček	š	0x0161	Lowercase S Haček
Ŧ	0x0166	Uppercase T-Stroke	ŧ	0x0167	Lowercase T-Stroke
Ú	0x00da	Uppercase U Acute	ú	0x00fa	Lowercase U Acute
Û	0x00db	Uppercase U Circum	û	0x00fb	Lowercase U Circum
Ü	0x00dc	Uppercase U Dieresis	ü	0x00fc	Lowercase U Dieresis
Ũ	0x0168	Uppercase U Tilde	ũ	0x0169	Lowercase U Tilde
Ȫ	0x016a	Uppercase U Macron	ȫ	0x016b	Lowercase U Macron
Ȭ	0x0172	Uppercase U Ogonek	ȭ	0x0173	Lowercase U Ogonek
Ý	0x00dd	Uppercase Y Acute	ý	0x00fd	Lowercase Y Acute
Ž	0x0179	Uppercase Z Acute	ž	0x017a	Lowercase Z Acute
Ž	0x017d	Uppercase Z Haček	ž	0x017e	Lowercase Z Haček
Ż	0x017b	Uppercase Z Overdot	ż	0x017c	Lowercase Z Overdot
Þ	0x00de	Uppercase Thorn	þ	0x00fe	Lowercase Thorn
Ɓ	0x00df	Lowercase Es-zet	Ɓ	0x0138	Lowercase Greenlandic Kra

Table D-3. Unicode Symbol List - Latin 6 (Bit 20) (continued)

Symbol	MSL	Description	Symbol	MSL	Description
—	0x00ad	Soft Hyphen	—	0x2014	Em Dash
“	0x201c	Double Open Quote (6)	”	0x201d	Double Close Quote (9)
«	0x00ab	Dbl lft pt Ang Quote	»	0x00bb	Dbl rt pt Ang Quote
⋮	0x2219	Center Period	„	0x201e	Dbl Baseline Quote (9)
’	0x00b4	Lowercase Acute	ˇ	0x02c7	Lowercase Haček
¨	0x00a8	Lowercase Dieresis	˙	0x02d9	Lowercase Overdot
ˉ	0x02c9	Lowercase Macron	˛	0x02db	Lowercase Ogonek
¸	0x00b8	Lowercase Cedilla	₪	0x00a4	Currency Symbol
¢	0x00a2	Cent Sign	£	0x00a3	Pound Sterling Sign
©	0x00a9	Copyright Sign	®	0x00ae	Registered Sign
§	0x00a7	Section Mark	¶	0x00b6	Pilcrow, Paragraph
±	0x00b1	Plus Over Minus Sign	×	0x00d7	Multiply Sign
÷	0x00f7	Divide Sign	¬	0x00ac	Not Sign
°	0x00b0	Degree Sign	μ	0x00b5	Lowercase Mu, Micro
¹	0x00b9	Superior Numeral 1	¼	0x00bc	Vulgar Fraction 1/4
²	0x00b2	Superior Numeral 2	½	0x00bd	Vulgar Fraction 1/2
³	0x00b3	Superior Numeral 3	¾	0x00be	Vulgar Fraction 3/4
‡	0x00a6	Broken Vertical Mark			

Continued on next page

Table D-3. Unicode Symbol List - Desktop Publishing (Bit 27)
(continued)

Sym	Unicode Description	Sym	Unicode Description
“	0x201c Double Open Quote (6)	”	0x201d Double Close Quote (9)
„	0x201a Sngl Baseline Quote (9)	„	0x201e Dbl Baseline Quote (9)
...	0x2026 Ellipsis	•	0x2022 Small Solid Bullet
—	0x2013 En Dash	—	0x2014 Em Dash
†	0x2020 Dagger Symbol	‡	0x2021 Double Dagger Symbol
‰	0x2030 Per Mill Sign	¢	0x00a2 Cent Sign
©	0x00a9 Copyright Sign	®	0x00ae Registered Sign
™	0x2122 Trademark Sign	°	0x00b0 Degree Sign
§	0x00a7 Section Mark	¶	0x00b6 Pilcrow, Paragraph
‹	0x2039 Sngl lft pt Ang Quote	›	0x203a Sngl rt pt Ang Quote
Œ	0x0152 Uppercase OE Ligature	œ	0x0153 Lowercase OE Ligature
¯	0x00af Overline, Overscore		

Table D-3. Unicode Symbol List - Accents (Bit 26) (continued)

Sym	Unicode Description	Sym	Unicode Description
ˇ	0x02c7 Lowercase Haček	˘	0x02d8 Lowercase Breve
˝	0x02dd Lowercase Dbl Acute	◌◌	0x02da Lowercase Ring
◌◌	0x02d9 Lowercase Overdot	◌	0x02c9 Lowercase Macron
◌	0x02db Lowercase Ogonek	◌	0x00b7 Lowercase Middle Dot
ı	0x0131 Lowercase Undotted I	−	0x2212 Minus Sign

Table D-3. Unicode Symbol List - PCL (Bit 25) (continued)

Sym	Unicode Description	Sym	Unicode Description
¢	0x00a2 Cent Sign	₧	0x20a7 Pesetas
ℓ	0x2113 Litre Symbol	°	0x00b0 Degree Sign
′	0x2032 Prime	″	0x2033 Double Prime
©	0x00a9 Copyright Sign	®	0x00ae Registered Sign
™	0x2122 Trademark Sign	‡	0x2020 Dagger Symbol
§	0x00a7 Section Mark	¶	0x00b6 Pilcrow, Paragraph
‰	0x2105 Care Of Symbol	/	0x2215 Vulgar Fraction Bar
IJ	0x0132 Uppercase IJ Ligature	ij	0x0133 Lowercase IJ Ligature
Ł	0x0141 Uppercase L-Stroke	ł	0x0142 Lowercase L-Stroke
fi	0xf001 Lowercase FI Ligature	fl	0xf002 Lowercase FL Ligature
−	0x2212 Minus Sign	¯	0x00af Overline, Overscore

Table D-3. Unicode Symbol List - Macintosh (Bit 24) (continued)

Sym	Unicode Description	Sym	Unicode Description
fi	0xf001 Lowercase FI Ligature	fl	0xf002 Lowercase FL Ligature
ı	0x0131 Lowercase Undotted I	ˇ	0x02c7 Lowercase Haček
ˉ	0x02c9 Lowercase Macron	˘	0x02d8 Lowercase Breve
˙	0x02d9 Lowercase Overdot	˚	0x02da Lowercase Ring
ć	0x02db Lowercase Ogonek	˝	0x02dd Lowercase Dbl Acute
₣	0x20a3 French Franc	π	0x03c0 Lowercase Greek Pi
Δ	0x2206 Uppercase Greek Delta	∂	0x2202 Partial Diff Symbol
∏	0x220f Product Symbol, Large Pi	Ω	0x2126 Uppercase Omega, Ohms
∑	0x2211 Summation Symbol, Sigma	∫	0x222b Integral Symbol
√	0x221a Radical Symbol	/	0x2215 Vulgar Fraction Bar
≠	0x2260 Not Equal To Symbol	≈	0x2248 2 Wavy Line Approx
≤	0x2264 Less Than/Equal To	≥	0x2265 Greater Than/Equal To
∞	0x221e Infinity Sign		

Table D-3. Unicode Symbol List - PostScript (Bit 23) (continued)

Sym	Unicode	Description	Sym	Unicode	Description
L̸	0x0141	Uppercase L-Stroke	l̸	0x0142	Lowercase L-Stroke
fi	0xf001	Lowercase FI Ligature	fl	0xf002	Lowercase FL Ligature
/	0x2215	Vulgar Fraction Bar			

Table D-3. Unicode Symbol List - PC (Bit 22) (continued)

Sym	Unicode Description	Sym	Unicode Description
Ł	0x013f Uppercase L-Dot	ł	0x0140 Lowercase L-Dot
Ń	0x0149 Lowercase Apostroph-N	ⁿ	0x207f Superior Lowercase N
₧	0x20a7 Pesetas	ℓ	0x2113 Litre Symbol
•	0x2022 Small Solid Bullet	!!	0x203c Double Exclamation
¶	0x00b6 Pilcrow, Paragraph	∞	0x221e Infinity Sign
√	0x221a Radical Symbol	┐	0x2310 Tick Down at Left
≈	0x2248 2 Wavy Line Approx	≡	0x2261 Exactly Equals
≤	0x2264 Less Than/Equal To	≥	0x2265 Greater Than/Equal To
∩	0x2229 Set Intersection	Θ	0x0398 Uppercase Greek Theta
Γ	0x0393 Uppercase Grk Gamma	Σ	0x2211 Large Sigma, Summ
Φ	0x03a6 Uppercase Greek Phi	α	0x03b1 Lowercase Greek Alpha
Ω	0x2126 Ohms, Uppr Grk Omega	ε	0x03b5 Lowercase Greek Epsilon
δ	0x03b4 Lowercase Greek Delta	σ	0x03c3 Lowercase Greek Sigma
π	0x03c0 Lowercase Greek Pi	φ	0x03c6 Lowercase Greek Phi
τ	0x03c4 Lowercase Greek Tau		

Table D-4. Unicode Symbol Collections

ASCII (Bit 31)
<p> A B C D E F G H I J K L M N O P Q R S T U V W X Y Z a b c d e f g h i j k l m n o p q r s t u v w x y z \$ # & % * @ _ . ! ? : ; ' , - ' " () [] { } . / \ 0 1 2 3 4 5 6 7 8 9 + = < > ^ _ ~ | . </p>
Latin 1 (Bit 30)
<p> Á Â Ã Ä Å Æ Ç È É Ê Ë Ì Í Î Ï Ñ Ò Ó Ô Õ Ö Ø Ù Ú Û Ü Ý Þ ß à á â ã ä å æ ç è é ê ë ì í î ï ñ ò ó ô õ ö ø ù ú û ü ý þ ß ¡ ¢ £ ¤ ¥ ¦ § ¨ © ª « ¬ ® ¯ ° ± ² ³ ´ µ ¶ · ¸ ¹ º » ¼ ½ ¾ </p>
Latin 2 (Bit 29)
<p> Á Â Ã Ä Å Æ Ç Ć Ĉ Ċ Ď Đ É Ê Ë Ě Ĭ Ĺ Ļ á â ã ä å æ ç ċ ĉ ċ ě đ é ê ë ě ĭ ĺ Ļ Ń Ň Ó Ô Õ Ö Ő Ŕ Ŗ Š š Ţ Ť Ú Û Ü Ý Ž ž ž ŋ ŉ ó ô õ ö ő ř š š ť ŧ ů ů ů ů ý ž ž ž ž - · « » “ ” ° µ × ÷ ± − ∞ § </p>

Table D-4. Unicode Symbol Collections (continued)

Latin 5 (Bit 28)

À Á Â Ã Ä Å Æ Ç È É Ê Ë Ì Í Î Ï Ñ Ò Ó Ô Õ Ö Ø Ù Ú Û Ü Ý Þ à á â ã ä å æ ç è é ê ë ì í î ï ñ ò ó ô õ ö ø ù ú û ü ý ß ¡ ¢ £ ¤ ¥ ¦ § ¨ © ª « ¬ ® ¯ ° ± ² ³ ´ µ ¶ · ¸ ¹ º » ¼ ½ ¾ ¿

Desktop Publishing (Bit 27)

“”•—†‡‰¢©®™°§¶‹›œæ⁻

Accents (Bit 26)

✓✓ 110. - .1-

PCL (Bit 25)

© Pts ™ © ® ™ † § ¶ % / I J i j L l f f l -

Table D-4. Unicode Symbol Collections (continued)

Macintosh (Bit 24)

$$\text{fl}_1^{\vee \cdots \circ} \text{"F} \pi \Delta \partial \Pi \Omega \Sigma \int \sqrt{\neq} \approx \leq \geq \infty,$$

PostScript (Bit 23)

L1f1f/

PC (Bit 22)

$$\begin{array}{l} \mathbb{L} \cdot \mathbb{I}^n \mathbb{P} \mathbb{t} \mathbb{s} \ell \bullet !! \P \infty \sqrt{\neg} \approx \equiv \lessgtr \cap, \\ \Gamma \ominus \Phi \sum \Omega \alpha \delta \varepsilon \pi \sigma \tau \varphi, \end{array}$$

Baltic/Nordic/Latin 6 (Bit 20)

ÀÂÃÄÅĀĄÆĆČÐĐÊËĚĘĞĮİĨĲĶŁ
 áâãäåāąæćčđėëěęğįıĩĳķł
 ŁŃņŅÓÔÕÖØǾŚśƦÚÛÜŪŮÝŽžẐ
 łńņņóôõöøǿśśřúûüũūýžžẑ
 —“”«»•‚ˆ˘˙˚˛˜˝Ꝥꝥ©®§¶±×÷¬°μ¹²³¹/₄¹/₂³/₄

