

Appendix F ASCII Character Set

ASCII is an acronym for *American Standard Code for Information Interchange*. ASCII is a code in which the numbers from 0–127 stand for text characters, including letters of the alphabet, the digits 0–9, punctuation marks, special characters, and control characters. ASCII is used for representing text inside of the computer and for transmitting text between computers. The Text and XMODEM protocols transfer files that consist only of ASCII characters; such files are also known as Text files.

When submitting data to the WHPO in the —.SUM, —.SEA, —.LVS, or —.CTD files only ASCII characters shown below should be included as these files are designed to be read by FORTRAN programs. The restriction *does not apply* to the —.DOC file, which can be submitted in any word processing program tabulated in Appendix E.

If submitting text files in ASCII please observe the following conventions to facilitate formatting by the WHPO for printing:

- Do not use a hyphen (-) to separate parts of a compound word.
- Please use a decimal (.) to delineate fractional values rather than a comma (,) and include the leading zero on small numbers, i.e., 0.045 rather than .045 or 0,045.
- Tables should be tab or comma delimited with no spaces between entries and each row delimited by a carriage return/line feed (CR/LF).
- Experience has shown that tables submitted in ASCII format are particularly susceptible to formatting errors. It is suggested that proof copies of all formatted tables submitted originally in ASCII format be carefully checked.
- Put a CR/LF only between paragraphs in text if possible or, alternatively, include one blank line between paragraphs.

ASCII character chart

<u>Key</u>	<u>Code (decimal)</u>	<u>Code (hex)</u>	<u>Abbreviation</u>	<u>Name</u>
Control-space	0	\$00	NUL	Null
Control-a	1	\$01	SOH	Start of header
Control-b	2	\$02	STX	Start of text
Control-c	3	\$03	ETX	End of text
Control-d	4	\$04	EOT	End of transmission
Control-e	5	\$05	ENQ	Enquiry
Control-f	6	\$06	ACK	Acknowledgment
Control-g	7	\$07	BELL	Bell
Control-h	8	\$08	BS	Backspace
Control-i	9	\$09	HT	Horizontal tab
Control-j	10	\$0A	LF	Line feed
Control-k	11	\$0B	VT	Vertical tab
Control-l	12	\$0C	FF	Form feed
Control-m	13	\$0D	CR	Carriage return
Control-n	14	\$0E	SO	Shift out
Control-o	15	\$0F	SI	Shift in
Control-p	16	\$10	DLE	Data link escape
Control-q	17	\$11	DC1 (XON)	Device control 1
Control-r	18	\$12	DC2	Device control 2
Control-s	19	\$13	DC3 (XOFF)	Device control 3
Control-t	20	\$14	DC4	Device control 4
Control-u	21	\$15	NAK	Negative acknowledgment
Control-v	22	\$16	SYN	Synchronization character
Control-w	23	\$17	ETB	End-of-transmission block
Control-x	24	\$18	CAN	Cancel
Control-y	25	\$19	EM	End of message
Control-z	26	\$1A	SUB	Substitute
Control-[	27	\$1B	ESC	Escape
Control-\	28	\$1C	FS	Forms separator
Control-]	29	\$1D	GS	Group separator
Control-^	30	\$1E	RS	Record separator
Control-_/	31	\$1F	US	Unit separator
space	32	\$20		Space
!	33	\$21		Exclamation point
"	34	\$22		Quotation mark
#	35	\$23		Number sign
\$	36	\$24		Dollar sign
%	37	\$25		Percent sign
&	38	\$26		Ampersand
'	39	\$27		Apostrophe, right single quotation mark, acute accent
(	40	\$28		Left parenthesis
)	41	\$29		Right parenthesis
*	42	\$2A		Asterisk
+	43	\$2B		Plus sign
,	44	\$2C		Comma
-	45	\$2D		Hyphen, minus sign
.	46	\$2E		Period, decimal point (full stop)
/	47	\$2F		Slant (solidus)
0	48	\$30		Digit zero
1	49	\$31		Digit one
2	50	\$32		Digit two
3	51	\$33		Digit three
4	52	\$34		Digit four
5	53	\$35		Digit five
6	54	\$36		Digit six
7	55	\$37		Digit seven
8	56	\$38		Digit eight
9	57	\$39		Digit nine

<u>Key</u>	<u>Code (decimal)</u>	<u>Code (hex)</u>	<u>Abbreviation</u>	<u>Name</u>
:	58	\$3A		Colon
;	59	\$3B		Semicolon
<	60	\$3C		Less than sign
=	61	\$3D		Equal sign
>	62	\$3E		Greater than sign
?	63	\$3F		Question mark
@	64	\$40		Commercial at
A	65	\$41		Uppercase A
B	66	\$42		Uppercase B
C	67	\$43		Uppercase C
D	68	\$44		Uppercase D
E	69	\$45		Uppercase E
F	70	\$46		Uppercase F
G	71	\$47		Uppercase G
H	72	\$48		Uppercase H
I	73	\$49		Uppercase I
J	74	\$4A		Uppercase J
K	75	\$4B		Uppercase K
L	76	\$4C		Uppercase L
M	77	\$4D		Uppercase M
N	78	\$4E		Uppercase N
O	79	\$4F		Uppercase O
P	80	\$50		Uppercase P
Q	81	\$51		Uppercase Q
R	82	\$52		Uppercase R
S	83	\$53		Uppercase S
T	84	\$54		Uppercase T
U	85	\$55		Uppercase U
V	86	\$56		Uppercase V
W	87	\$57		Uppercase W
X	88	\$58		Uppercase X
Y	89	\$59		Uppercase Y
Z	90	\$5A		Uppercase Z
[	91	\$5B		Left bracket (left square bracket)
\	92	\$5C		Reverse slant (reverse solidus)
]	93	\$5D		Right bracket (right square bracket)
^	94	\$5E		Circumflex accent
¯	95	\$5F		Underline (lowline)
	96	\$60		Left single quotation mark, grave accent
a	97	\$61		Lowercase a
b	98	\$62		Lowercase b
c	99	\$63		Lowercase c
d	100	\$64		Lowercase d
e	101	\$65		Lowercase e
f	102	\$66		Lowercase f
g	103	\$67		Lowercase g
h	104	\$68		Lowercase h
i	105	\$69		Lowercase i
j	106	\$6A		Lowercase j
k	107	\$6B		Lowercase k
l	108	\$6C		Lowercase l
m	109	\$6D		Lowercase m
n	110	\$6E		Lowercase n
o	111	\$6F		Lowercase o
p	112	\$70		Lowercase p
q	113	\$71		Lowercase q
r	114	\$72		Lowercase r
s	115	\$73		Lowercase s
t	116	\$74		Lowercase t
u	117	\$75		Lowercase u

<u>Key</u>	<u>Code (decimal)</u>	<u>Code (hex)</u>	<u>Abbreviation</u>	<u>Name</u>
v	118	\$76		Lowercase v
w	119	\$77		Lowercase w
x	120	\$78		Lowercase x
y	121	\$79		Lowercase y
z	122	\$7A		Lowercase z
{	123	\$7B		Left brace (left curly bracket)
|	124	\$7C		Vertical line
}	125	\$7D		Right brace
~	126	\$7E		Tilde (overline)
Delete	127	\$7F	DEL	Delete