

## APPENDIX B



# ASCII Character Code Definitions

The first 32 American Standard Code for Information Interchange (ASCII) characters provide control functions. Many of these haven't been referenced in this book but are included here for completeness. In Table B-1, only the first 128 characters are included. The remaining 128 characters include further special symbols and letters for national character sets.

**Table B-1.** *ASCII Character Code Values*

Decimal	Hexadecimal	Character	Control
000	00	Null	NUL
001	01	☺	SOH
002	02	●	STX
003	03	♥	ETX
004	04	♦	EOT
005	05	♣	ENQ
006	06	♠	ACK
007	07	•	BEL (audible bell)
008	08	--	Backspace
009	09	--	HT
010	0A	--	LF (linefeed)
011	0B	--	VT (vertical tab)
012	0C	--	FF (form feed)
013	0D	--	CR (carriage return)
014	0E	--	SO
015	0F	--	SI
016	10	--	DLE
017	11	--	DC1
018	12	--	DC2
019	13	--	DC3

**Table B-1.** *ASCII Character Code Values (Continued)*

Decimal	Hexadecimal	Character	Control
020	14	--	DC4
021	15	--	NAK
022	16	--	SYN
023	17	--	ETB
024	18	--	CAN
025	19	--	EM
026	1A	➔	SUB
027	1B	⬅	ESC (escape)
028	1C	└	FS
029	1D	--	GS
030	1E	--	RS
031	1F	--	US
032	20	--	Space
033	21	!	--
034	22	"	--
035	23	#	--
036	24	\$	--
037	25	%	--
038	26	&	--
039	27	'	--
040	28	(	--
041	29	)	--
042	2A	*	--
043	2B	+	--
044	2C	,	--
045	2D	-	--
046	2E	.	--
047	2F	/	--
048	30	0	--
049	31	1	--
050	32	2	--
051	33	3	--

**Table B-1.** *ASCII Character Code Values (Continued)*

Decimal	Hexadecimal	Character	Control
052	34	4	--
053	35	5	--
054	36	6	--
055	37	7	--
056	38	8	--
057	39	9	--
058	3A	:	--
059	3B	;	--
060	3C	<	--
061	3D	=	--
062	3E	>	--
063	3F	?	--
064	40	@	--
065	41	A	--
066	42	B	--
067	43	C	--
068	44	D	--
069	45	E	--
070	46	F	--
071	47	G	--
072	48	H	--
073	49	I	--
074	4A	J	--
075	4B	K	--
076	4C	L	--
077	4D	M	--
078	4E	N	--
079	4F	O	--
080	50	P	--
081	51	Q	--
082	52	R	--
083	53	S	--

**Table B-1.** *ASCII Character Code Values (Continued)*

Decimal	Hexadecimal	Character	Control
084	54	T	--
085	55	U	--
086	56	V	--
087	57	W	--
088	58	X	--
089	59	Y	--
090	5A	Z	--
091	5B	[	--
092	5C	\	--
093	5D	]	--
094	5E	^	--
095	5F	_	--
096	60	'	--
097	61	a	--
098	62	b	--
099	63	c	--
100	64	d	--
101	65	e	--
102	66	f	--
103	67	g	--
104	68	h	--
105	69	i	--
106	6A	j	--
107	6B	k	--
108	6C	l	--
109	6D	m	--
110	6E	n	--
111	6F	o	--
112	70	p	--
113	71	q	--
114	72	r	--
115	73	s	--

**Table B-1.** *ASCII Character Code Values (Continued)*

Decimal	Hexadecimal	Character	Control
116	74	t	--
117	75	u	--
118	76	v	--
119	77	w	--
120	78	x	--
121	79	y	--
122	7A	z	--
123	7B	{	--
124	7C		--
125	7D	}	--
126	7E	~	--
127	7F	Delete	--

Note that the null character in the table is not necessarily the same as NULL, which is defined in the C library and whose value is implementation-dependent.