ASCII and EBCDIC character sets

XL Fortran uses the ASCII character set as its collating sequence.

This table lists the standard ASCII characters in numerical order with the corresponding decimal and hexadecimal values. For convenience in working with programs that use EBCDIC character values, the corresponding information for EBCDIC characters is also included. The table indicates the control characters with "Ctrl-" notation. For example, the horizontal tab (HT) appears as "Ctrl-I", which you enter by simultaneously pressing the Ctrl key and I key.

Table 1. Equivalent characters in the ASCII and EBCDIC character sets

Decimal Value	Hex Value	Control Character	ASCII Symbol	Meaning	EBCDIC Symbol	Meaning
0	00	Ctrl-@	NUL	null	NUL	null
1	01	Ctrl-A	SOH	start of heading	SOH	start of heading
2	02	Ctrl-B	STX	start of text	STX	start of text
3	03	Ctrl-C	ETX	end of text	ETX	end of text
4	04	Ctrl-D	EOT	end of transmission	SEL	select
5	05	Ctrl-E	ENQ	enquiry	НТ	horizontal tab
6	06	Ctrl-F	ACK	acknowledge	RNL	required new-line
7	07	Ctrl-G	BEL	bell	DEL	delete
8	08	Ctrl-H	BS	backspace	GE	graphic escape
9	09	Ctrl-I	НТ	horizontal tab	SPS	superscript
10	0A	Ctrl-J	LF	line feed	RPT	repeat
11	0B	Ctrl-K	VT	vertical tab	VT	vertical tab
12	0C	Ctrl-L	FF	form feed	FF	form feed
13	OD	Ctrl-M	CR	carriage return	CR	carriage return
14	0E	Ctrl-N	SO	shift out	SO	shift out
15	OF	Ctrl-O	SI	shift in	SI	shift in
16	10	Ctrl-P	DLE	data link escape	DLE	data link escape
17	11	Ctrl-Q	DC1	device control 1	DC1	device control 1
18	12	Ctrl-R	DC2	device control 2	DC2	device control 2
19	13	Ctrl-S	DC3	device control 3	DC3	device control 3

Decimal Value	Hex Value	Control Character	ASCII Symbol	Meaning	EBCDIC Symbol	Meaning
20	14	Ctrl-T	DC4	device control 4	RES/ENP	restore/enable presentation
21	15	Ctrl-U	NAK	negative acknowledge	NL	new-line
22	16	Ctrl-V	SYN	synchronous idle	BS	backspace
23	17	Ctrl-W	ETB	end of transmission block	POC	program-operator communications
24	18	Ctrl-X	CAN	cancel	CAN	cancel
25	19	Ctrl-Y	EM	end of medium	EM	end of medium
26	1A	Ctrl-Z	SUB	substitute	UBS	unit backspace
27	1B	Ctrl-[ESC	escape	CU1	customer use 1
28	1C	Ctrl-\	FS	file separator	IFS	interchange file separator
29	1D	Ctrl-]	GS	group separator	IGS	interchange group separator
30	1E	Ctrl-∧	RS	record separator	IRS	interchange record separator
31	1F	Ctrl	US	unit separator	IUS/ITB	interchange unit separator / intermediate transmission block
32	20		SP	space	DS	digit select
33	21		!	exclamation mark	SOS	start of significance
34	22		п	straight double quotation mark	FS	field separator
35	23		#	number sign	WUS	word underscore
36	24		\$	dollar sign	BYP/INP	bypass/inhibit presentation
37	25		%	percent sign	LF	line feed
38	26		&	ampersand	ETB	end of transmission block
39	27		1	apostrophe	ESC	escape
40	28		(left parenthesis	SA	set attribute
41	29)	right parenthesis		
42	2A		*	asterisk	SM/SW	set model switch
43	2B		+	addition sign	CSP	control sequence prefix
44	2C		,	comma	MFA	modify field attribute
45	2D		-	subtraction sign	ENQ	enquiry

	Decimal	Hex	Control	ASCII	Meaning	EBCDIC	Meaning
	Value	Value	Character	Symbol		Symbol	
	46	2E			period	ACK	acknowledge
	47	2F		/	right slash	BEL	bell
	48	30		0			
	49	31		1			
	50	32		2		SYN	synchronous idle
	51	33		3		IR	index return
	52	34		4		PP	presentation position
	53	35		5		TRN	
	54	36		6		NBS	numeric backspace
	55	37		7		EOT	end of transmission
	56	38		8		SBS	subscript
	57	39		9		IT	indent tab
	58	3A		:	colon	RFF	required form feed
	59	3B		;	semicolon	CU3	customer use 3
	60	3C		<	less than	DC4	device control 4
	61	3D		=	equal	NAK	negative acknowledge
	62	3E		>	greater than		
	63	3F		?	question mark	SUB	substitute
	64	40		@	at symbol	SP	space
	65	41		A			
	66	42		В			
	67	43		С			
	68	44		D			
	69	45		E			
	70	46		F			
	71	47		G			
	72	48		Н			
_	73	49		I			

>

Decimal Value	Hex Value	Control Character	ASCII Symbol	Meaning	EBCDIC Symbol	Meaning
74	4A		J		¢	cent
75	4B		K			period
76	4C		L		<	less than
77	4D		М		(left parenthesis
78	4E		N		+	addition sign
79	4F		0		I	logical or
80	50		Р		&	ampersand
81	51		Q			
82	52		R			
83	53		S			
84	54		Т			
85	55		U			
86	56		V			
87	57		W			
88	58		Х			
89	59		Υ			
90	5A		Z		!	exclamation mark
91	5B		[left bracket	\$	dollar sign
92	5C		\	left slash	*	asterisk
93	5D]	right bracket)	right parenthesis
94	5E		۸	hat, circumflex	;	semicolon
95	5F		_	underscore	٦	logical not
96	60		`	grave	-	subtraction sign
97	61		а		/	right slash
98	62		b			
99	63		С			
100	64		d			
101	65		е			

Decimal	Hex	Control	ASCII	Meaning	EBCDIC	Meaning
Value	Value	Character	Symbol	ricaming	Symbol	ricaning
102	66		f			
103	67		g			
104	68		h			
105	69		i			
106	6A		j			split vertical bar
107	6B		k		,	comma
108	6C		l		%	percent sign
109	6D		m		_	underscore
110	6E		n		>	greater than
111	6F		0		?	question mark
112	70		р			
113	71		q			
114	72		r			
115	73		S			
116	74		t			
117	75		u			
118	76		V			
119	77		W			
120	78		Х			
121	79		У		•	grave
122	7A		Z		:	colon
123	7B		{	left brace	#	numbersign
124	7C			logical or	@	at symbol
125	7D		}	right brace	I	apostrophe
126	7E		~	similar, tilde	=	equal
127	7F		DEL	delete	п	straight double quotation mark
128	80					
129	81				а	

>

	Decimal Value	Hex Value	Control Character	ASCII Symbol	Meaning	EBCDIC Symbol	Meaning
	130	82				b	
	131	83				С	
	132	84				d	
	133	85				е	
	134	86				f	
	135	87				g	
	136	88				h	
	137	89				i	
	138	8A					
	139	8B					
	140	8C					
	141	8D					
	142	8E					
	143	8F					
	144	90					
	145	91				j	
	146	92				k	
	147	93				l	
	148	94				m	
	149	95				n	
	150	96				0	
	151	97				р	
	152	98				q	
	153	99				r	
	154	9A					
	155	9B					
	156	9C					
-	157	9D					

Decimal Value	Hex Value	Control Character	ASCII Symbol	Meaning	EBCDIC Symbol	Meaning
158	9E					
159	9F					
160	Α0					
161	A1				~	similar, tilde
162	A2				S	
163	А3				t	
164	A4				u	
165	A5				V	
166	A6				W	
167	A7				X	
168	A8				У	
169	А9				Z	
170	AA					
171	AB					
172	AC					
173	AD					
174	AE					
175	AF					
176	В0					
177	B1					
178	B2					
179	ВЗ					
180	B4					
181	B5					
182	B6					
183	В7					
184	B8					
185	B9					

Decimal Value	Hex Value	Control Character	ASCII Symbol	Meaning	EBCDIC Symbol	Meaning
186	ВА					
187	ВВ					
188	ВС					
189	BD					
190	BE					
191	BF					
192	CO				{	left brace
193	C1				А	
194	C2				В	
195	C3				С	
196	C4				D	
197	C5				Е	
198	C6				F	
199	C7				G	
200	C8				Н	
201	C9				Ι	
202	CA					
203	СВ					
204	CC					
205	CD					
206	CE					
207	CF					
208	D0				}	right brace
209	D1				J	
210	D2				K	
211	D3				L	
212	D4				М	
213	D5				 N	

Decimal Value	Hex Value	Control Character	ASCII Symbol	Meaning	EBCDIC Symbol	Meaning
214	D6				0	
215	D7				Р	
216	D8				Q	
217	D9				R	
218	DA					
219	DB					
220	DC					
221	DD					
222	DE					
223	DF					
224	EO				\	left slash
225	E1					
226	E2				S	
227	E3				Т	
228	E4				U	
229	E5				V	
230	E6				W	
231	E7				Χ	
232	E8				Υ	
233	E9				Z	
234	EA					
235	EB					
236	EC					
237	ED					
238	EE					
239	EF					
240	F0				0	
241	F1				1	

Decimal Value	Hex Value	Control Character	ASCII Symbol	Meaning	EBCDIC Symbol	Meaning
242	F2				2	
243	F3				3	
244	F4				4	
245	F5				5	
246	F6				6	
247	F7				7	
248	F8				8	
249	F9				9	
250	FA				l	vertical line
251	FB					
252	FC					
253	FD					
254	FE					
255	FF				EO	eight ones

Parent topic:

→ Appendix





