

### E.1 Commonly Used Numerical Prefixes

**Table E.1 Numerical Prefixes**

Amount	Commonly Used Base-2 Approx.	Prefix	Abbreviation	Derived From
$10^{24}$	$2^{80}$	yotta	Y	Greek for eight: okto
$10^{21}$	$2^{70}$	zetta	Z	Greek for seven: hepta
$10^{18}$	$2^{60}$	exa	E	Greek for six: hexa
$10^{15}$	$2^{50}$	peta	P	Greek for five: pente
$10^{12}$	$2^{40}$	tera	T	Greek for monster: teras
$10^9$	$2^{30}$	giga	G	Greek for giant: gigas
$10^6$	$2^{20}$	mega	M	Greek for large: megas
$10^3$	$2^{10}$	kilo	k	Greek for thousand: chilioi
$10^{-3}$		milli	m	Latin for thousand: milli
$10^{-6}$		micro	$\mu$	Greek for small: mikros
$10^{-9}$		nano	n	Greek for dwarf: nanos
$10^{-12}$		pico	p	Spanish for a little: pico
$10^{-15}$		femto	f	Danish and Norwegian for 15: femten
$10^{-18}$		atto	a	Danish and Norwegian for 18: atten
$10^{-21}$		zepto	z	Greek for seven: hepta
$10^{-24}$		yocto	y	Greek for eight: okto

## E.2 Standard ASCII codes

**Table E.2 The Standard ASCII Table**

ASCII			ASCII			ASCII			ASCII		
Character	Dec	Hex	Character	Dec	Hex	Character	Dec	Hex	Character	Dec	Hex
nul	0	00	sp	32	20	@	64	40	`	96	60
soh	1	01	!	33	21	A	65	41	a	97	61
stx	2	02	"	34	22	B	66	42	b	98	62
etx	3	03	#	35	23	C	67	43	c	99	63
eot	4	04	\$	36	24	D	68	44	d	100	64
enq	5	05	%	37	25	E	69	45	e	101	65
ack	6	06	&	38	26	F	70	46	f	102	66
bel	7	07	'	39	27	G	71	47	g	103	67
bs	8	08	(	40	28	H	72	48	h	104	68
ht	9	09	)	41	29	I	73	49	i	105	69
lf	10	0A	*	42	2A	J	74	4A	j	106	6A
vt	11	0B	+	43	2B	K	75	4B	k	107	6B
ff	12	0C	,	44	2C	L	76	4C	l	108	6C
cr	13	0D	-	45	2D	M	77	4D	m	109	6D
so	14	0E	.	46	2E	N	78	4E	n	110	6E
si	15	0F	/	47	2F	O	79	4F	o	111	6F
dle	16	10	0	48	30	P	80	50	p	112	70
dc1	17	11	1	49	31	Q	81	51	q	113	71
dc2	18	12	2	50	32	R	82	52	r	114	72
dc3	19	13	3	51	33	S	83	53	s	115	73
dc4	20	14	4	52	34	T	84	54	t	116	74
nak	21	15	5	53	35	U	85	55	u	117	75
syn	22	16	6	54	36	V	86	56	v	118	76
etb	23	17	7	55	37	W	87	57	w	119	77
can	24	18	8	56	38	X	88	58	x	120	78
em	25	19	9	57	39	Y	89	59	y	121	79
sub	26	1A	:	58	3A	Z	90	5A	z	122	7A
esc	27	1B	;	59	3B	[	91	5B	{	123	7B
fs	28	1C	<	60	3C	\	92	5C		124	7C
gs	29	1D	=	61	3D	]	93	5D	}	125	7D
rs	30	1E	>	62	3E	^	94	5E	~	126	7E
us	31	1F	?	63	3F	_	95	5F	del	127	7F

## E.3 Powers of 2

**Table E.3 Powers of 2**

Amount	Decimal Conversion	Common Abbreviation
$2^1$	2	—
$2^2$	4	—
$2^3$	8	—
$2^4$	16	—
$2^5$	32	—
$2^6$	64	—
$2^7$	128	—
$2^8$	256	—
$2^9$	512	—
$2^{10}$	1,024	1K
$2^{11}$	2,048	2K
$2^{12}$	4,096	4K
$2^{13}$	8,192	8K
$2^{14}$	16,384	16K
$2^{15}$	32,768	32K
$2^{16}$	65,536	64K
$2^{17}$	131,072	128K
$2^{18}$	262,144	256K
$2^{19}$	544,288	512K
$2^{20}$	1,048,576	1M
$2^{30}$	1,073,741,824	1G
$2^{32}$	4,294,967,296	4G

