

Cheat sheet for Large Number programming considerations

Don't forget Little Endian - Big Endian differences

Binary Bits Required (BBR)	Est Length Decimal String (ELDS)	Byte Length	Word Length	Dword Length
$B = (ELDS - 1) / \log(2)$	$L = \text{Trunc}(\log(2) * BBR) + 1$	$\text{INT}(BBR / 8) + 1$	$\text{INT}(BBR / 16) + 1$	$\text{INT}(BBR / 32) + 1$
4	2	1	1	1
8	3	2	1	1
16	5	3	2	1
32	10	5	3	2
64	20	9	5	3
128	39	17	9	5
256	78	33	17	9
512	155	65	33	17
1,024	309	129	65	33
2,048	617	257	129	65
4,096	1,234	513	257	129
8,192	2,467	1,025	513	257
16,384	4,933	2,049	1,025	513
32,768	9,865	4,097	2,049	1,025
65,536	19,729	8,193	4,097	2,049
131,072	39,457	16,385	8,193	4,097
262,144	78,914	32,769	16,385	8,193
524,288	157,827	65,537	32,769	16,385
1,048,576	315,653	131,073	65,537	32,769
2,097,152	631,306	262,145	131,073	65,537