

**Binary and
Hexadecimal Values**

Mainframe courses at SYS-ED include:

- **Programming Skills**
- **PC Emulation of Mainframe Software**
- **Telecommunications**
- **VSAM**
- **Database: IMS**
- **Client/Server for MVS**
- **Programming Languages**
- **Utilities & Development Tools**
- **Operating Systems**
- **CICS**
- **Relational Database**
- **Productivity Management**

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TM

Powers of 2	
X	2 ^X
1	2
2	4
3	8
4	16
5	32
6	64
7	128
8	256
9	512
10	1,024
11	2,048
12	4,096
13	8,192
14	16,384
15	32,768
16	65,536
17	131,072
18	262,144
19	524,288
20	1,048,576
21	2,097,152
22	4,194,304
23	8,388,608
24	16,777,216
25	33,554,432
26	67,108,864
27	134,217,728
28	268,435,456
29	536,870,912
30	1,073,741,824
31	2,147,483,648
32	4,294,967,296



Powers of 16	
X	16^x
1	16
2	256
3	4,096
4	65,536
5	1,048,576
6	16,777,216
7	268,435,456
8	4,294,967,296
9	68,719,476,736
10	1,099,511,627,776
11	17,592,186,044,416
12	281,474,976,710,656
13	4,503,599,627,370,500
14	72,057,594,037,927,900
15	1,152,921,504,606,850,000
16	18,446,744,073,709,600,000
17	295,147,905,179,353,000,000
18	4,722,366,482,869,650,000,000
19	75,557,863,725,914,300,000,000
20	1,208,925,819,614,630,000,000,000
21	19,342,813,113,834,100,000,000,000
22	309,485,009,821,345,000,000,000,000
23	4,951,760,157,141,520,000,000,000,000
24	79,228,162,514,264,300,000,000,000,000
25	1,267,650,600,228,230,000,000,000,000,000
26	20,282,409,603,651,700,000,000,000,000,000
27	324,518,553,658,427,000,000,000,000,000,000
28	5,192,296,858,534,830,000,000,000,000,000,000
29	83,076,749,736,557,200,000,000,000,000,000,000
30	1,329,227,995,784,920,000,000,000,000,000,000,000
31	21,267,647,932,558,700,000,000,000,000,000,000,000
32	340,282,366,920,938,000,000,000,000,000,000,000,000

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