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## Class A Networks

Network address            33.0.0.0  
 Default SNM                255.0.0.0  
 11111111. 0000 0000 0000 0000 0000 0000

SUBNET MASK (Last three octets)	SNM	# SN ID'S	# of Hosts Per SN-ID
1000 0000 0000 0000 0000 0000	128	$2^1 = 2-2= 0$	$2^{23} = 8388608-2=8388606$
1100 0000 0000 0000 0000 0000	192	$2^2 = 4-2= 2$	$2^{22} = 4194304-2=4194302$
1110 0000 0000 0000 0000 0000	224	$2^3 = 8-2= 6$	$2^{21} = 2097152-2=2097150$
1111 0000 0000 0000 0000 0000	240	$2^4 = 16-2= 14$	$2^{20} = 1048576-2=1048574$
1111 1000 0000 0000 0000 0000	248	$2^5 = 32-2= 30$	$2^{19} = 524288-2=524286$
1111 1100 0000 0000 0000 0000	252	$2^6 = 64-2= 62$	$2^{18} = 262144-2=262142$
1111 1110 0000 0000 0000 0000	254	$2^7 = 128-2= 126$	$2^{17} = 131072-2=131070$
1111 1111 0000 0000 0000 0000	255	$2^8 = 256-2= 254$	$2^{16} = 65536-2=65534$

## Class B Networks

Network address            152.77.0.0  
 Default SNM                255.255.0.0  
 11111111. 11111111. 0000 0000 0000 0000

SUBNET MASK (Last two octets)	SNM	# SN ID'S	# of Hosts Per SN-ID
1000 0000 0000 0000	128	$2^1 = 2-2= 0$	$2^{15} = 32768 - 2 = 32766$
1100 0000 0000 0000	192	$2^2 = 4-2= 2$	$2^{14} = 16384 - 2 = 16382$
1110 0000 0000 0000	224	$2^3 = 8-2= 6$	$2^{13} = 8192 - 2 = 8190$
1111 0000 0000 0000	240	$2^4 = 16-2= 14$	$2^{12} = 4096 - 2 = 4094$
1111 1000 0000 0000	248	$2^5 = 32-2= 30$	$2^{11} = 2048 - 2 = 2046$
1111 1100 0000 0000	252	$2^6 = 64-2= 62$	$2^{10} = 1024 - 2 = 1022$
1111 1110 0000 0000	254	$2^7 = 128-2= 126$	$2^9 = 512 - 2 = 510$
1111 1111 0000 0000	255	$2^8 = 256-2= 254$	$2^8 = 256 - 2 = 254$

## Class C Networks

Network address            206.123.88.0  
 Default SNM                255.255.255.0  
 11111111. 11111111. 11111111. 0000 0000

SUBNET (Last octets)	SNM	# SN ID'S	# of Hosts Per SN-ID
1000 0000	128	$2^1 = 2-2= 0$	$2^7 = 128 - 2 = 126$
1100 0000	192	$2^2 = 4-2= 2$	$2^6 = 64 - 2 = 62$
1110 0000	224	$2^3 = 8-2= 6$	$2^5 = 32 - 2 = 30$
1111 0000	240	$2^4 = 16-2= 14$	$2^4 = 16 - 2 = 14$
1111 1000	248	$2^5 = 32-2= 30$	$2^3 = 8 - 2 = 6$
1111 1100	252	$2^6 = 64-2= 62$	$2^2 = 4 - 2 = 2$
1111 1110	254	$2^7 = 128-2= 126$	$2^1 = 2 - 2 = 0$ (Invalid)
1111 1111	255	$2^8 = 256-2= 254$	$2^0 = 1 - 2 =$ (Invalid)