**Chapter 10 Project: Classful Subnet Mask Calculator**

* How many subnet bits are there? 0
* How many mask bits are there? 24
* How many subnets are available? 1
* How many hosts can be on each subnet? 254

Graphical user interface, application

Description automatically generated

1. Change the subnet mask to 255.255.255.224

* Now how many subnet mask bits are there? 3
* How many mask bits? 27
* How many subnets are available? 8
* How many hosts can be on each subnet? 30

Graphical user interface, application

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1. Change the subnet mask to 255.255.255.252

* How many subnets are available? 6
* How many hosts can be on each subnet? 2
* Why is the total number of hosts available on all subnets fewer than the number of hosts when the subnet mask is 255.255.255.0?

Using the host’s formula 2h – 2 where h represents the number of 0s in the subnet mask, we conclude that 255.255.255.0 is the only one with 0, therefore the calculation results in a bigger number.

Graphical user interface, application

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