

Eng Com I Q2 2002

Define a resource in a digital communication system as anything, which ~~is~~ ^{is} use by one instance of communication prevents ~~use~~ simultaneous use by another. Channel capacity is one such example.

[2]

i) Give two more examples of resource in digital communication systems.

[4]

ii) For all three resources, indicate how the amount of ^{total} resource can be increased

[6]

iii) How are allocation of each of these resources to portions of communication performed

[10]

i) eg buffer space, address space

ii) capacity - more physical transmission systems
- better modulation, compression

buffer - just memory!

address space - some fraction of architecture
requires new arch eg IP v6.

iii) buffer - general discussion of flow control
capacity

address space - depends whether stat hnd or not...