240.0.0.0/4: The Future Begins Now

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What's this all about?

52%

18%

1% 6%

6%

17%

- ☐ **Free**
- ☐ **Registries**
- ☐ **Legacy**
- ☐ **Multicast**
- ☐ **Future Use**
- ☐ **Other**
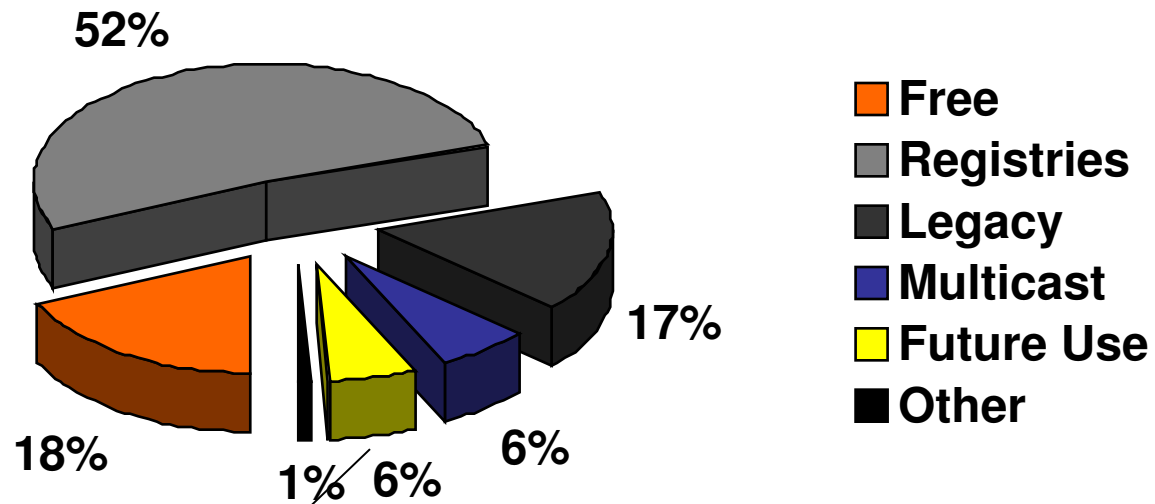
240.0.0.0/4

Source: IANA (20 Sep 2007)

Options for 240.0.0.0/4

- Make Space Unicast Public
  - Makes it potentially available sometime down the line
- Make Space Unicast Private
  - Lets "consenting adults" use space (draft-wilson-classe-01.txt)
- Split space up in some way
- Do Nothing

Our Approach

- We don't yet know or agree on how address space should be used, except…

- Someone should use it

- "future use" doesn't make much sense any more

- Make code changes NOW and figure out whether it's public or private in the next year or so

- Draft-fuller-240space-00.txt

There is some running code

- Coming soon to a Linux kernel near you
  - 5 files, removing a few lines each (submitted)
  - Kernel developers have done a simpler version
- FreeBSD and OSX (mostly) works
  - One minor change if system is a router
- Has been added to latest Solaris
- More code needed (in many places); this will take time

Possible issues

- Will this slow down ipv6 implementations?
  - Seems unlikely given how simple this is
- What about router support?
  - Surprisingly few "martian" checks for 240/4
  - Cisco DCOS done; IOS, XR bug fixes opened
  - Don't know about Juniper, others
- Microsoft and 6to4 tunneling

Last words

- 240/4 is not a panacea but it may help
- No consensus yet on public/private…
- …code changes are simple
- …and status can be decided later
- "Let's Do It"

Questions? Comments?