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## Real IPv6 Traffic @ AS1930

**RCTS**  
REDE CIÊNCIA, TECNOLOGIA E SOCIEDADE

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Foundation for National Scientific Computing

**POS\_C**ONHECIMENTO  
Programa Operacional Sociedade do Conhecimento

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[www.fccn.pt](http://www.fccn.pt)

- IPv6 @ a RCTS member
  - RCTS has 12 IPv6 native members
- IPv6 Traffic between RCTS and GÉANT2
  - Jan/2005 – Aug/2007

## Lisbon's Polytechnic Institute

- Dual-Stack Services
  - E-Mail
  - Web
  - DNS
- Several campus throught Lisbon
- EDUROAM Enabled
  - [www.eduroam.org](http://www.eduroam.org)



- Sample - 20070905 > 20071012 (~2 months)

| Messages                                      | IPv6  | IPv4   | %    |
|---|-------|--------|------|
| Received by IPL's MTAs, from internal sources | 16987 | 73521  | 18,8 |
| Sent to external MTAs                         | 572   | 107423 | 0,53 |
| Received from external MTAs                   | 1536  | 500887 | 0,31 |

- Main external sources of IPv6 carried messages
  - smtp1.ist.utl.pt (2001:690:2100:1::15)
  - tahini.csx.cam.ac.uk (2001:630:200:8080:204:23ff:fed6:b664)
  - evunix.uevora.pt (2001:690:2006:200::1)
- Main external destinations of IPv6 carried messages
  - smtp.ist.utl.pt (2001:690:2100:1::15 e 2001:690:2100:1::16)
  - info.uevora.pt (2001:690:2006:200::20)
  - mx.kth.se (2001:6b0:1:1300:20e:7fff:fef0:f8bb)

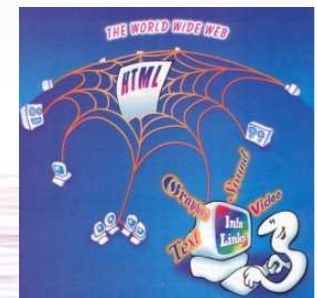


- Sample - 20070420 > 20071011 (~6 months)

| Hits         | IPv6    | IPv4     | %            |
|--------------|---------|----------|--------------|
| From Outside | 28679   | 74802059 | 0,04         |
| From Inside  | 1679449 | 14797859 | <b>11,35</b> |

- Main external origins

- (PT) UTL, FCCN, UEVORA, UP, IPB, VODAFONE
- 6TO4, TEREDO



- Sample - 20071011 16:50 > 20071012 12:59
- Server: ns1.net.ipl.pt (2001:690:2008:2::16)
- IPv6 Queries from.....
  - 12 different internal IPv6 networks
  - 60 external IPv6 networks

| Queries  | IPv6  | IPv4   | %    |
|----------|-------|--------|------|
| Internal | 60371 | 242753 | 19,9 |
| External | 4723  | 72197  | 6,14 |

# IPv6 Traffic RCTS/GÉANT2

2005

- GÉANT2 > RCTS
- RCTS > GÉANT2

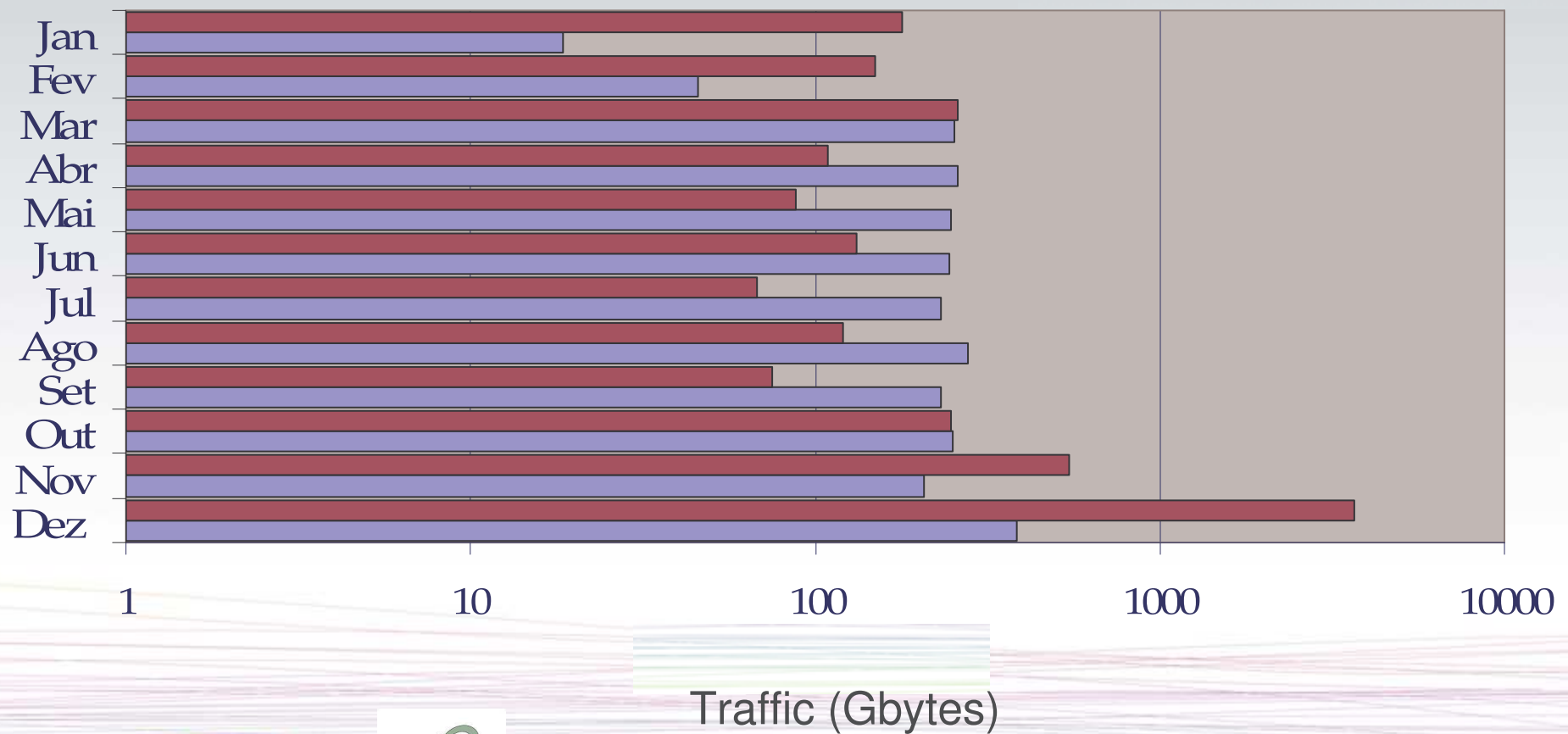




# IPv6 Traffic RCTS/GÉANT2

2006

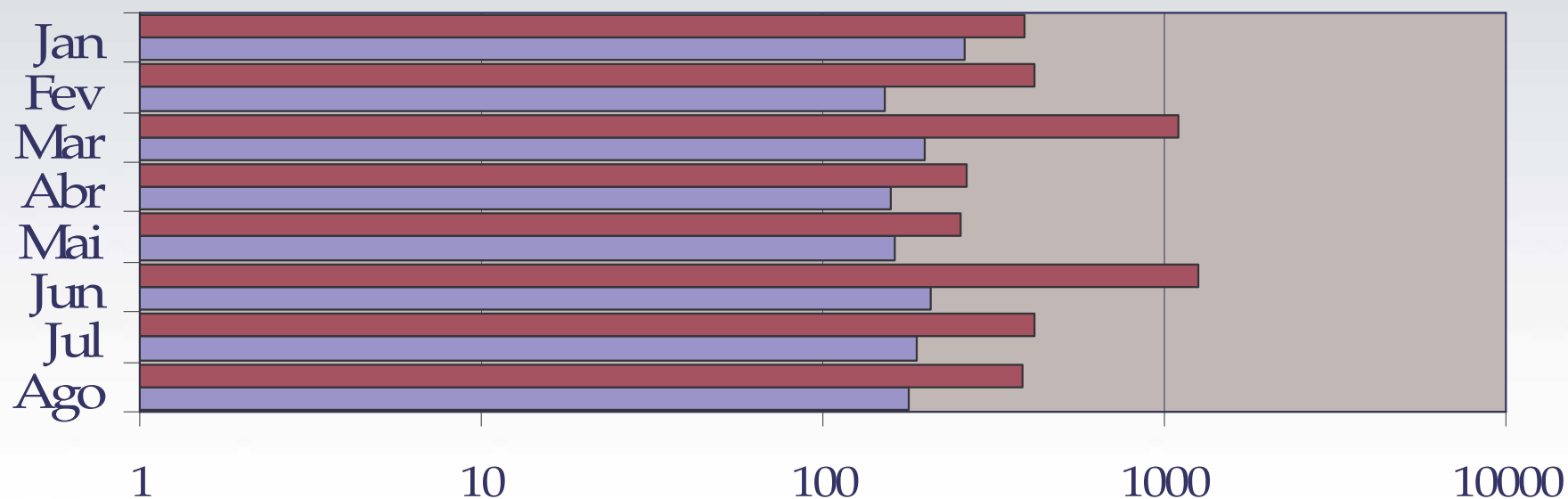
- GÉANT2 > RCTS
- RCTS > GÉANT2



# IPv6 Traffic RCTS/GÉANT2

2007

- GÉANT2 > RCTS
- RCTS > GÉANT2



Traffic (Gbytes)



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