

I2-DSI

DISTRIBUTED STORAGE INFRASTRUCTURE

<http://icl.cs.utk.edu/dsi/>

A REPLICATED HOSTING SERVICE FOR THE HIGH-PERFORMANCE SERVICE GRID

SINGLE SERVER

- High Performance locally
- Unacceptable performance across commodity backbone

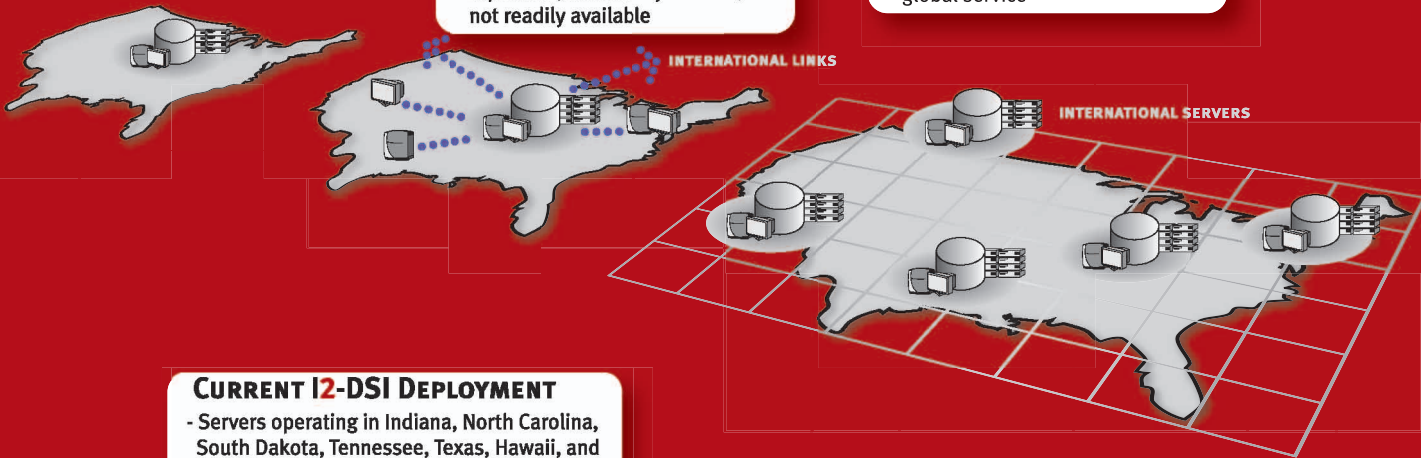
WIDE AREA QoS SOLUTION

- High Performance access with reserved bandwidth
- Essential only for real-time communication
- Expensive, technically difficult, and not readily available

I2-DSI MODEL:

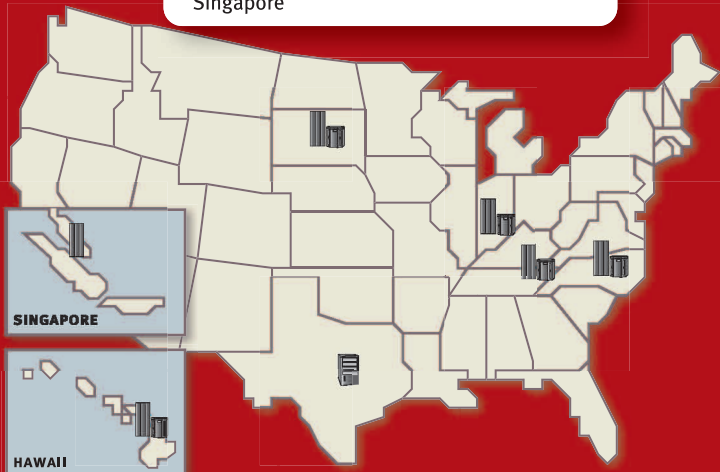
REPLICATED SERVICES

- Clients access nearby servers
- Everyone gets performance
- Local resources implement a global service



CURRENT I2-DSI DEPLOYMENT

- Servers operating in Indiana, North Carolina, South Dakota, Tennessee, Texas, Hawaii, and Singapore



CURRENT I2-DSI CHANNELS

CPAN - THE COMPREHENSIVE PERL ARCHIVE NETWORK
[HTTP://cpan.dsi.internet2.edu](http://cpan.dsi.internet2.edu)

DOCSOUTH - DOCUMENTING THE AMERICAN SOUTH COLLECTIONS (UNC-CH AAL)
[HTTP://docsouth.dsi.internet2.edu](http://docsouth.dsi.internet2.edu)

HIGH MPEG - HIGH BANDWIDTH MPEG-1 VIDEO FOR LOCAL STREAMING DELIVERY
[HTTP://highmpeg.dsi.internet2.edu](http://highmpeg.dsi.internet2.edu)

METALAB UNIX - A COMPREHENSIVE LINUX REPOSITORY
[HTTP://linux.dsi.internet2.edu](http://linux.dsi.internet2.edu)

NETLIB - MATHEMATICAL SOFTWARE, PAPERS, AND DATABASES (UTK ICL)
[HTTP://netlib.dsi.internet2.edu](http://netlib.dsi.internet2.edu)

OPEN VIDEO - VIDEO CONTENT FOR THE RESEARCH COMMUNITY (UNC-CH IDL)
[HTTP://openvideo.dsi.internet2.edu](http://openvideo.dsi.internet2.edu)

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