



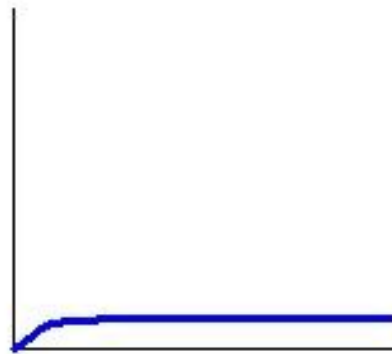
# Open Science Data Federation - OSDF

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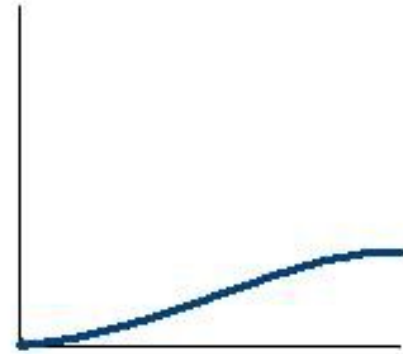
UCSD

Classical learning curves for some common editors

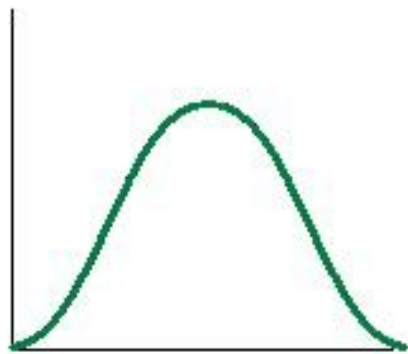
**Notepad**



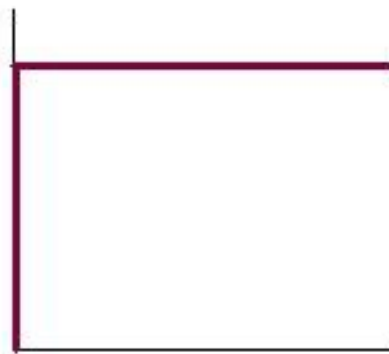
**Pico**



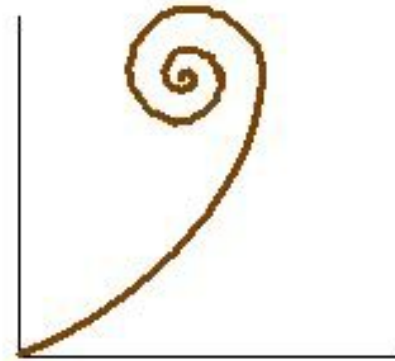
**Visual Studio**



**vi**

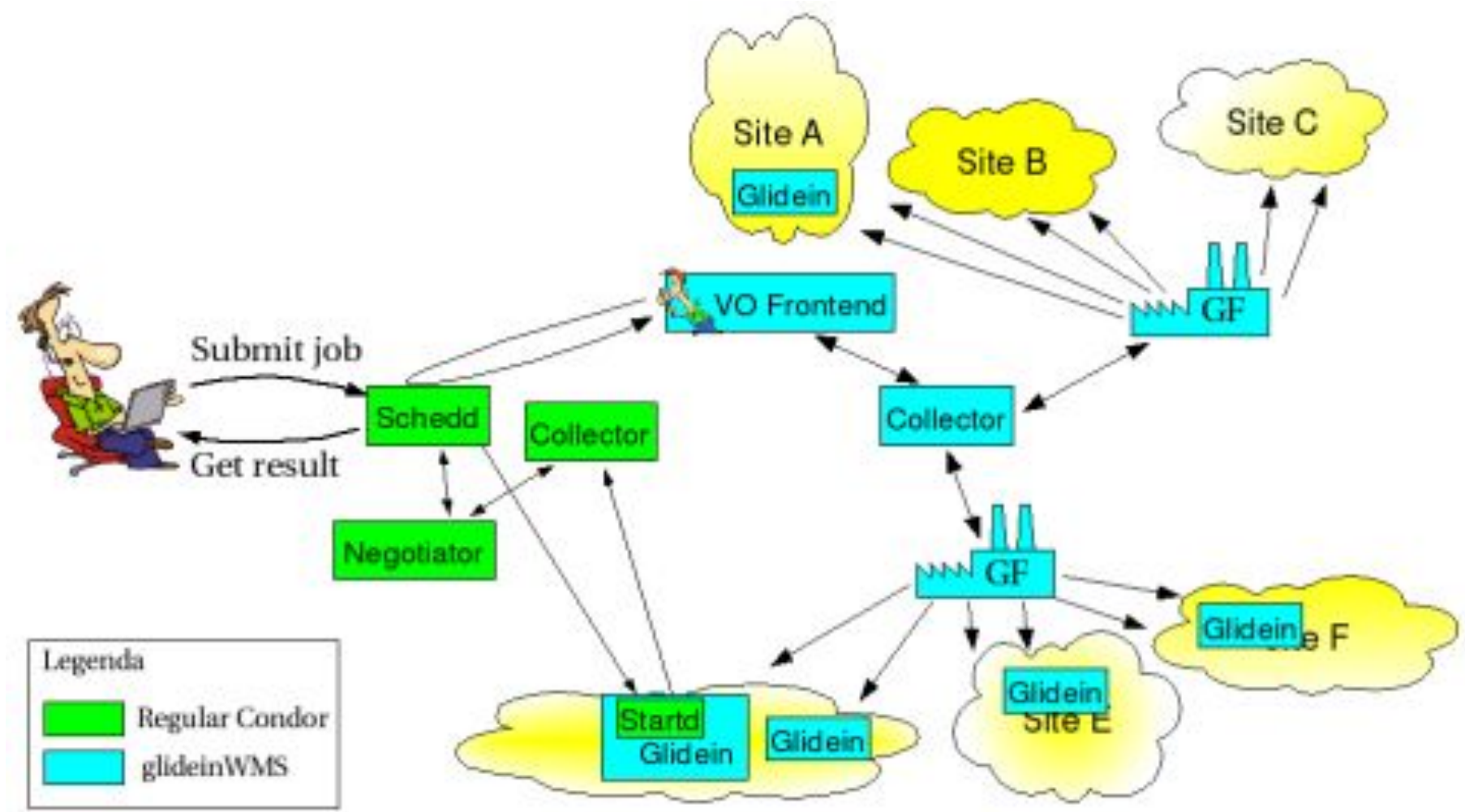


**emacs**



©  
11-17-04

# OSG



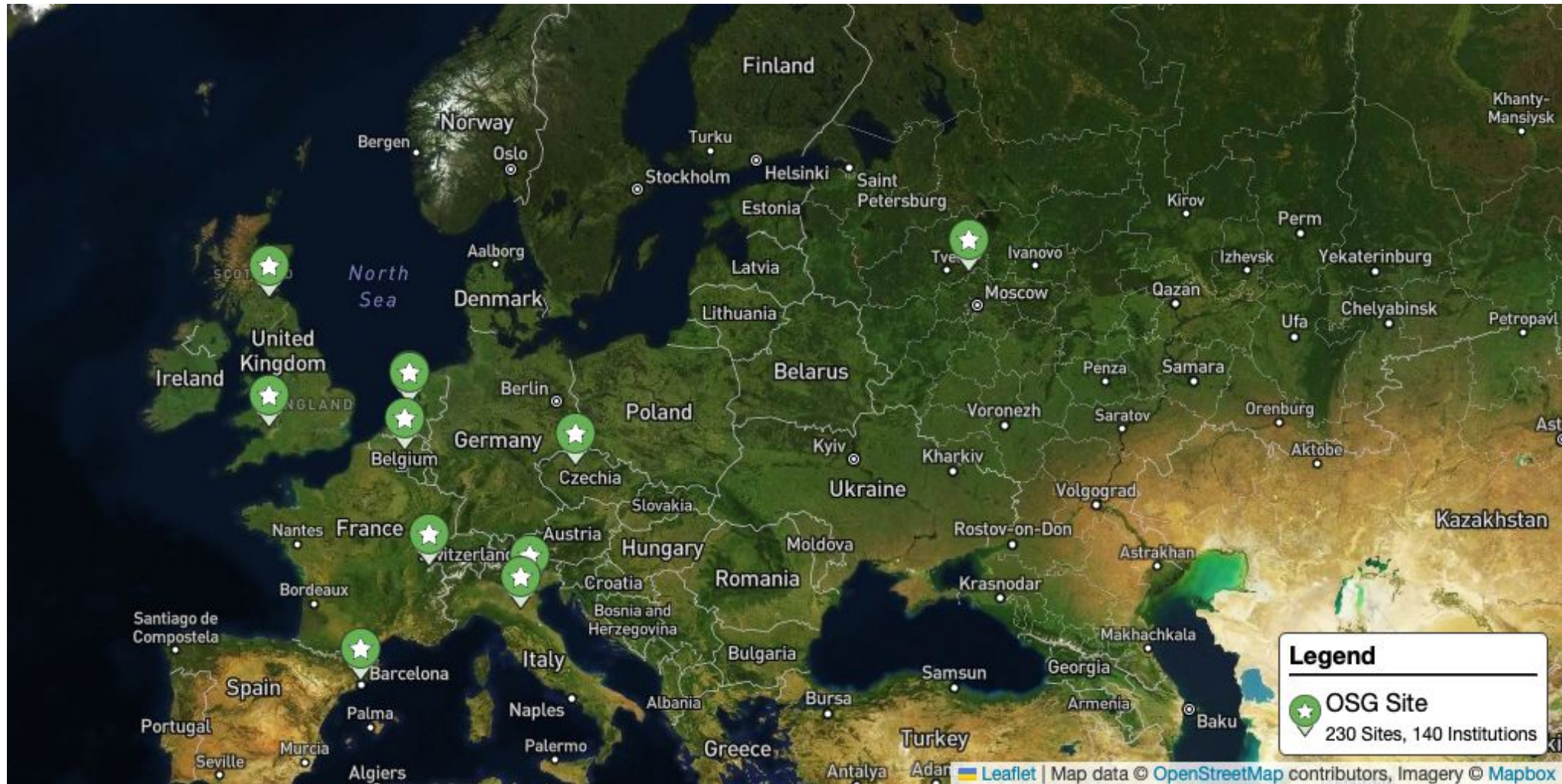
# OSG



# OSG



# OSG



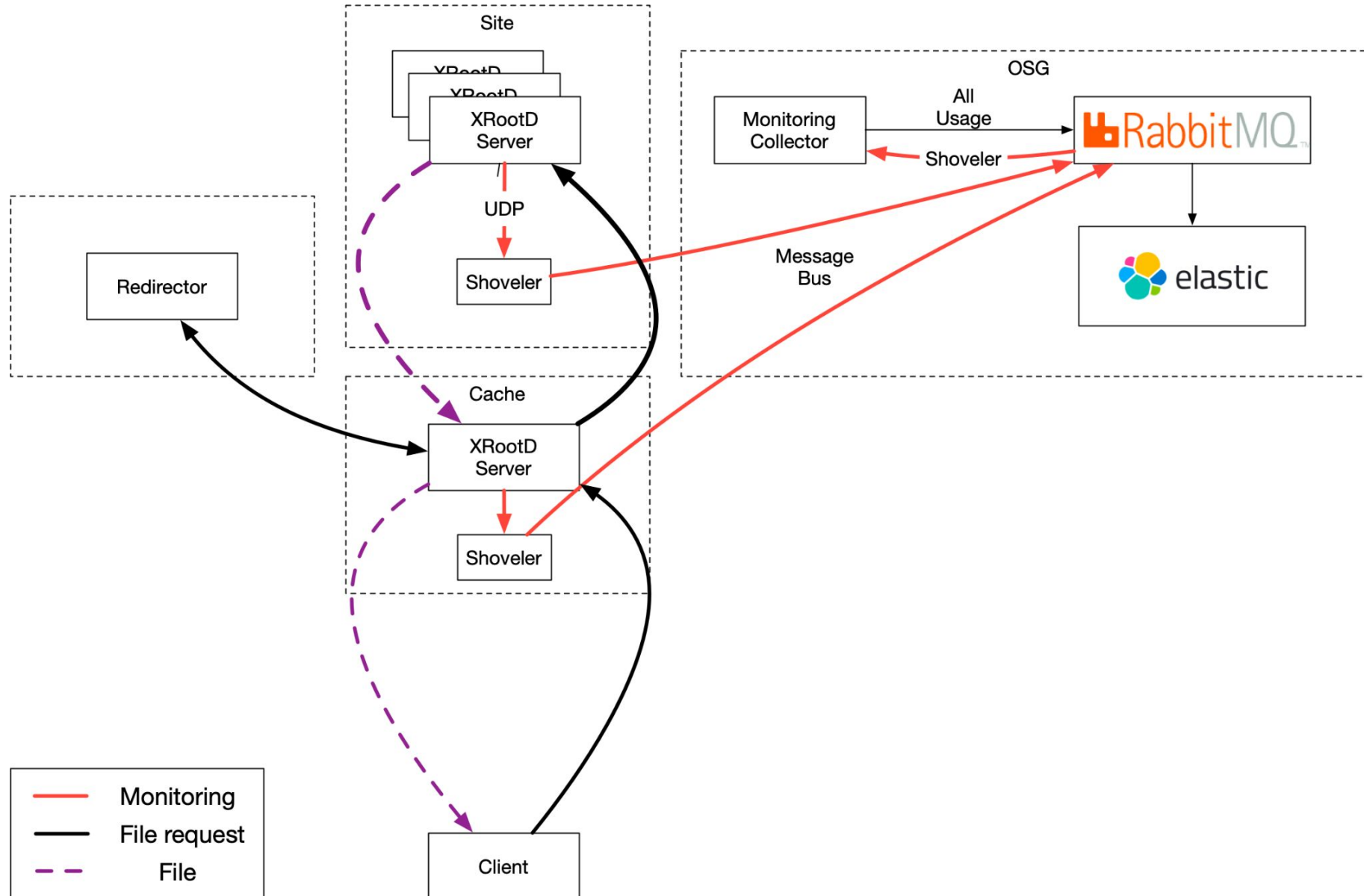
# Open Science Data Federation

- The Open Science Data Federation (OSDF) is an OSG service designed to support the sharing of files staged in autonomous “origins”, for efficient access to those files from anywhere in the world via a global namespace and network of caches.
- The OSDF may be used either from within OSG or independent of OSG

## Example OSDF Use Cases

- A researcher wants to share a dataset with their community such that others may process it.
- A researcher produces data on the OSG that they need to store for future processing or sharing with the community.
- A researcher has a GB to TB-scale dataset that they want to analyze. Their workflow processes the same data many times, thus benefiting greatly from the caching within OSDF.

# OSDF





# Open Science Data Federation

Providing data access and transfer services for Open Science

BYTES READ  
**29,570 TB**



↑ 938 MB/s Last 1 Year

FILES READ  
**1,188,355,803**



↑ 38/s Last 1 Year



# OSDF Client

StashCP is the client tool to download or upload files on the Open Science Data Federation.

**Download StashCP for your platform**

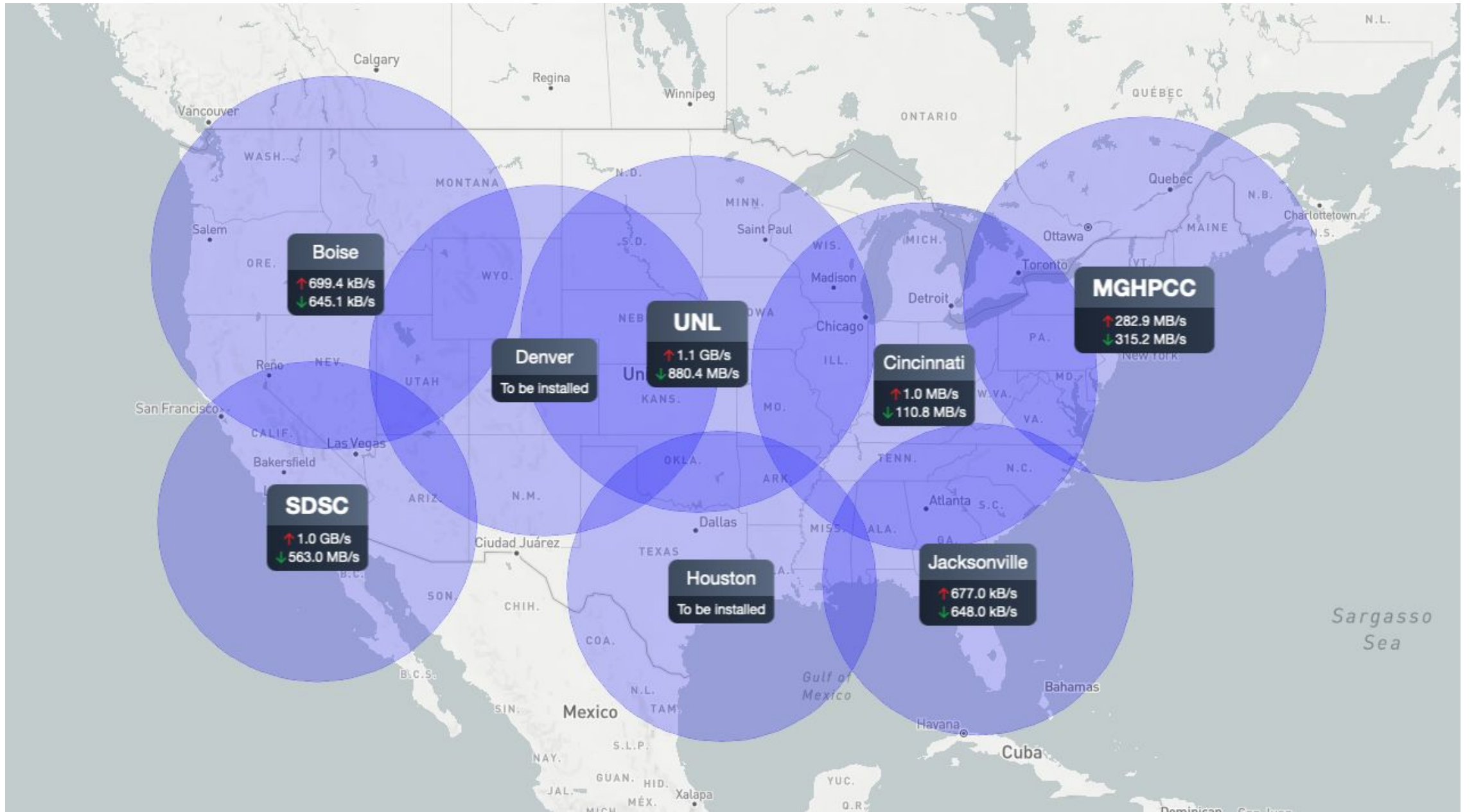
rpm, deb, exe, static binary



**View the Source** </>

## Terminal

```
$ stashcp /osgconnect/public/dweitzel/blast/queries/query1 ./  
query1 done!
```



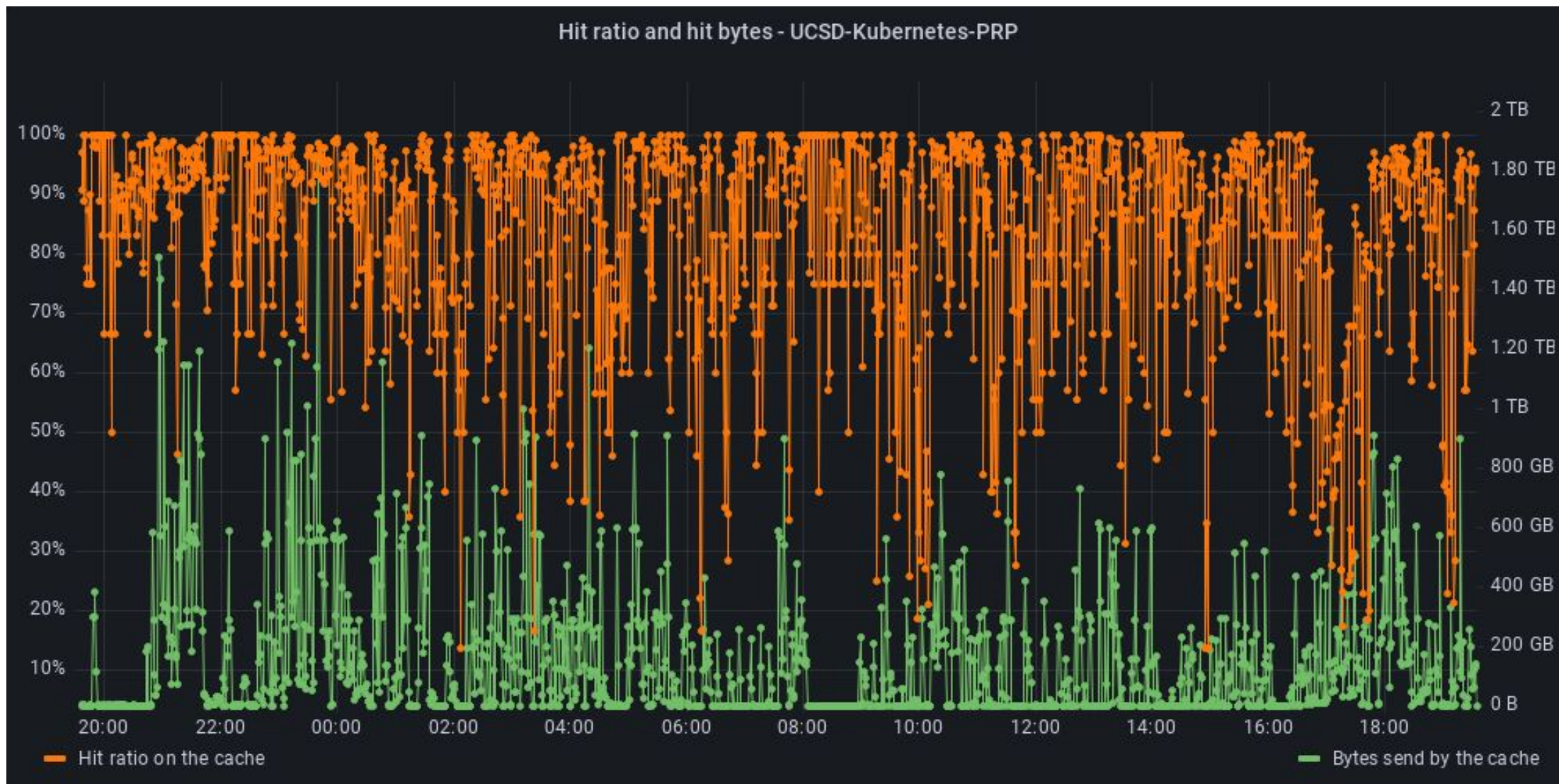
<https://nrp-website.vercel.app>





<https://opensciencegrid.org/about/osdf/>

# OSDF - Monitoring



# OSDF - Monitoring

