



Test runs of log clustering connecting Panos' and Maria's algorithms

Most failing sites of 02-25 according to Panos' algorithm (sorted by fails as a source site or by total fails)

	site	failed_src	successful_src	src_fail_rate
97	CERN-PROD	99643.0	219236.0	0.312479
4	IN2P3-CC	20671.0	125751.0	0.141174
75	AGLT2	17861.0	28843.0	0.382430
74	BNL-ATLAS	17616.0	181271.0	0.088573
91	FI_HIP_T2	16119.0	3911.0	0.804743
39	DESY-HH	15494.0	55030.0	0.219698
69	KR-KNU-T3	15267.0	90221.0	0.144727
59	GRIF	14561.0	35619.0	0.290175
112	MWT2	14478.0	24553.0	0.270000

	site	failed_src	successful_src	failed_dst	successful_dst	failed_tot	src_fail_rate	dst_fail_rate	fail_rate
73	UKI-NORTHGRID-MAN-HEP	14447.0	19519.0						
13	UKI-SCOTGRID-GLASGOW	6312.0	11957.0	190093.0	10264.0	380186.0	0.345503	0.948771	0.898361
19	INFN-GENOVA	3260.0	0.0	70777.0	0.0	141554.0	1.000000	1.000000	1.000000
97	CERN-PROD	99643.0	219236.0	68173.0	130658.0	136346.0	0.312479	0.342869	0.324151
69	KR-KNU-T3	15267.0	90221.0	31316.0	162422.0	62632.0	0.144727	0.161641	0.155678
93	pic	12756.0	38832.0	28956.0	49503.0	57912.0	0.247267	0.369059	0.320746
36	LRZ-LMU	9550.0	18979.0	22876.0	11127.0	45752.0	0.334747	0.672764	0.518551
44	INFN-ROMA3	5534.0	639.0	21664.0	29055.0	43328.0	0.896485	0.427138	0.478064
73	UKI-NORTHGRID-MAN-HEP	14447.0	19519.0	20474.0	29573.0	40948.0	0.425337	0.409095	0.415662
22	SE-SNIC-T2	1.0	0.0	18733.0	0.0	37466.0	1.000000	1.000000	1.000000
90	MPPMU	6479.0	14984.0	17037.0	12468.0	34074.0	0.301868	0.577428	0.461388

Clustering results with Maria's clusterlogs module (FI_HIP_T2 failing as a source site)

```
#FI_HIP_T2
top_clusters_fihipt = cluster_fihipt.validation(clusters_fihipt)[['cluster_size', 'pattern', 'mean_similarity']].sort_values(by=['cluster_size', 'mean_similarity'], ascending=[True, False])
top_clusters_fihipt.head(top_numb)
```

	cluster_size	pattern	mean_similarity
0	15620	srm-ifce err: Communication error on send, err: [SE][Ls][] httpg:/madhatter.csc.fi:8443/srm/managerv2: CGI-gSOAP running on((*)) reports Error reading token data header: Connection closed	0.99
1	130	TRANSFER globus_ftp_client: the server responded with an error 451 451-GlobusError: v=1 c=INTERNAL_ERROR 451-GridFTP-Errno: 255 451-GridFTP-Reason: System error in write into HDFS (host=((*)), user=cmsprod, path=/cms/store/((*))/(**)/(**)/(**)/(**)/(**)/(**)) 451-GridFTP-Error-String: Unknown error 255 451((*))	0.78
2	117	Destination file exists and overwrite is not enabled	1.00
3	36	((*)) globus_ftp_client: the server responded with an error 530 Login incorrect. : Server over the global connection limit of 250 (user has 0 transfers) (host=((*)), user=cmsprod, path=(null))	0.92
4	35	DESTINATION SRM_PUT_TURL error on the turl request : [SE][StatusOfPutRequest][SRM_NO_FREE_SPACE] <none>	1.00
5	13	globus_ftp_client: the operation was aborted	1.00
6	11	((*)) globus_ftp_client: the server responded with an error 530 Login incorrect. : Server is cancelling transfer due to over-load limit (host=se11.vampire, user=cmsphedex, path=(null))	0.94
7	9	TRANSFER globus_ftp_client: the server responded with an error 500 Command failed. : Internal server error	1.00

Most inaccurate clusters (FI_HIP_T2 failing as a source site)

```
#FI_HIP_T2
top_clusters_fihipt[['cluster_size', 'pattern', 'mean_similarity']].sort_values(by=["mean_similarity"]).head(5)
```

	cluster_size	pattern	mean_similarity
1	130	TRANSFER globus_ftp_client: the server responded with an error 451 451-GridFTP-Errno: 255 451-GridFTP-Reason: System error in write into HDFS (host={{*}}, user=cmsprod, path=/cms/store/{{*}}/{{*}}/{{*}}/{{*}}/{{*}}) 451-GridFTP-Error-String: Unknown error 255 451{{*}}	0.78
3	36	{{*}} globus_ftp_client: the server responded with an error 530 Login incorrect. : Server over the global connection limit of 250 (user has 0 transfers) (host={{*}}, user=cmsprod, path=(null))	0.92
6	11	{{*}} globus_ftp_client: the server responded with an error 530 Login incorrect. : Server is cancelling transfer due to over-load limit (host=se11.vampire, user=cmsphedex, path=(null))	0.94
10	5	{{*}} globus_xio: Unable to connect to ganymede.hep.kbfi.ee:2811 globus_xio: globus_libc_getaddrinfo failed. globus_common: Name or service not known	0.97
12	3	DESTINATION SRM_PUTDONE Error on the surl srm:/sbgse1.in2p3.fr/dpm/in2p3.fr/home/cms/phedex/store/PhEDEX_LoadTest07/LoadTest07_Debug_FI_HIP/FR_IPHC/130/{{*}} while putdone : [SE][PutDone][SRM_FAILURE] Incompatible with current file status	0.98

Clustering results with Maria's clusterlogs module (UKI-SCOTGRID-GLASGOW failing as a src OR dst site)

```
#UKI-SCOTGRID-GLASGOW
```

```
top_numb = 10
```

```
top_clusters_glasg = cluster_glasg.validation(clusters_glasg)[['cluster_size', 'pattern', 'mean_similarity']].sort_values(by=["clu
```

```
top_clusters_glasg.head(top_numb)
```

```
< [Progress bar]
```

	cluster_size	pattern	mean_similarity
0	185867	((*)) globus_ftp_client: the server responded with an error 500 Command failed : stat64 error: No space left on device	1.00
1	289	TRANSFER globus_ftp_client: the server responded with an error 555 SRM upload aborted: Changing file state because request state has changed.	1.00
2	274	((*)) an end-of-file was reached globus_xio: An end of file occurred	1.00
3	148	((*)) srm-ifce err: Communication error on send, err: [SE][((*))][] http://((*)) :8446/srm/managerv2: CGSI-gSOAP running on((*)) reports Error reading token data header: Connection reset by peer	0.75
4	148	TRANSFER CHECKSUM MISMATCH Source and destination checksums do not match((*)) != 00000001	0.95
5	144	((*)) globus_xio: Unable to connect to((*)) :2811 globus_xio: System error in connect: Connection refused globus_xio: A system call failed: Connection refused	0.83
6	140	SOURCE CHECKSUM MISMATCH User defined checksum and source checksum do not match((*)) !=((*))	0.88
7	136	DESTINATION OVERWRITE srm-ifce err: Communication error on send, err: [SE][srmRm][] http://lcg-lrz-srm.grid.lrz.de:8443/srm/managerv2: CGSI-gSOAP running on((*)) reports could not open connection to lcg-lrz-srm.grid.lrz.de:8443	0.99
8	124	((*)) srm-ifce err: Communication error on send, err: [SE][((*))][] http://((*)) :8443/srm/managerv2: CGSI-gSOAP running on((*)) reports could not open connection to((*)) :8443	0.70

Most inaccurate clusters (UKI-SCOTGRID-GLASGOW failing as a src OR dst site)



```
#UKI-SCOTGRID-GLASGOW'
```

```
top_clusters_glasg[['cluster_size', 'pattern', 'mean_similarity']].sort_values(by=["mean_similarity"]).head(5)
```

	cluster_size	pattern	mean_similarity
8	124	((*)) srm-ifce err: Communication error on send, err: [SE][((*))][] httpg:/((*)):8443/srm/managerv2: CGI-gSOAP running on((*)) reports could not open connection to((*)):8443	0.70
3	148	((*)) srm-ifce err: Communication error on send, err: [SE][((*))][] httpg:/((*)):8446/srm/managerv2: CGI-gSOAP running on((*)) reports Error reading token data header: Connection reset by peer	0.75
15	70	srm-ifce err: Communication error on send, err: [SE][Ls][] httpg:/((*)):8446/srm/managerv2: CGI-gSOAP running on((*)) reports could not open connection to((*)):8446	0.79
5	144	((*)) globus_xio: Unable to connect to((*)):2811 globus_xio: System error in connect: Connection refused globus_xio: A system call failed: Connection refused	0.83
9	123	SOURCE SRM_GET_TURL error on the turl request : [SE][StatusOfGetRequest][((*))] <none>	0.84