

TIER2 – Monitoring

Shifters report 23.01.-20.02.2008

Christian Sander

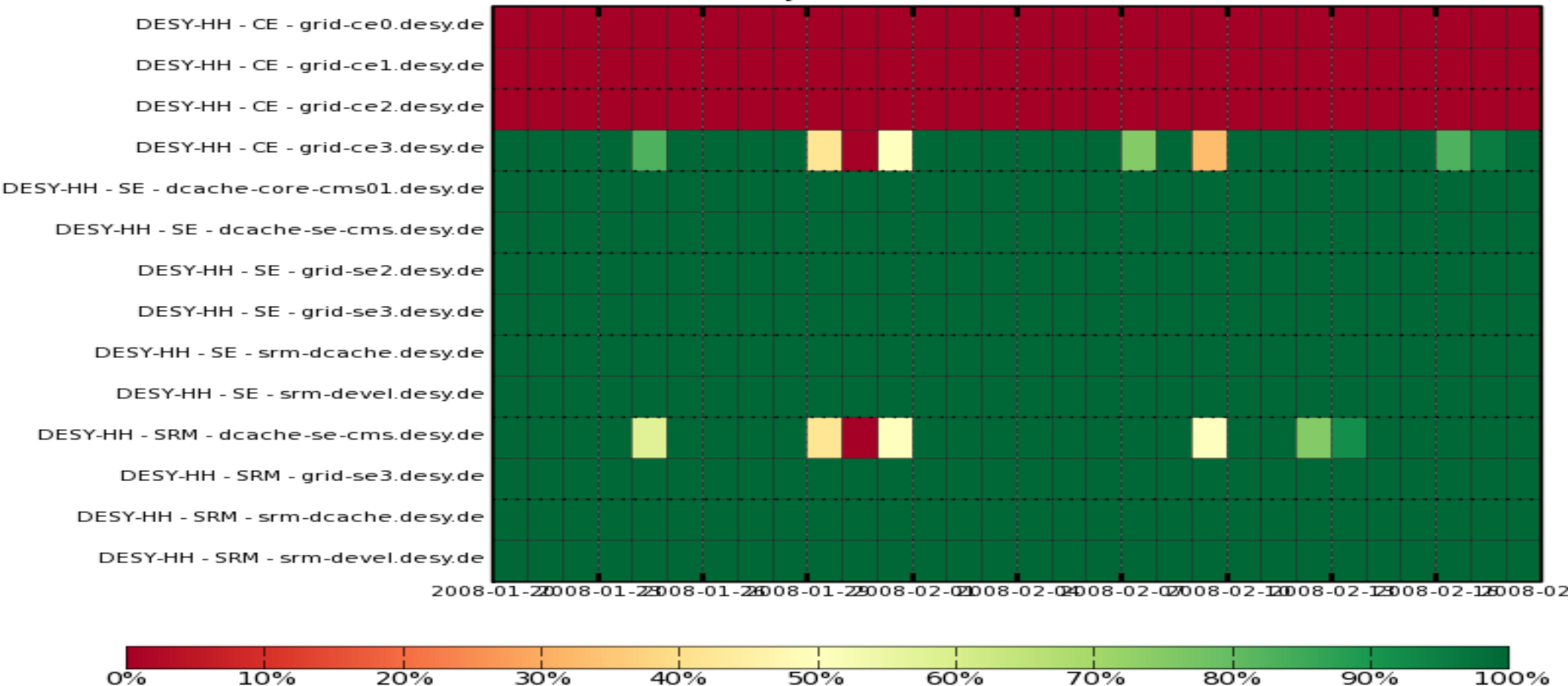
- SAM status
- ARDA dashbord
- PhEDEx transfers / Link status
- MC Production
- dCache Pool status

Service Availability Monitoring

Sitename	Service Type	Service Name	basic	frontier	dummy	squid	swinst	js	mc	getmeta	del	put	getpfn	get
DESY-HH	CE	grid-ce0.desy.de	ok	ok	ok	ok	ok	maint	ok					
		grid-ce1.desy.de	ok	ok	ok	ok	ok		error					
		grid-ce2.desy.de	ok	ok	ok	ok	ok	maint	ok					
		grid-ce3.desy.de	ok	ok	ok	ok	ok	ok	ok					
	SRM	dcache-se-cms.desy.de								ok	ok	ok	ok	ok
		grid-se3.desy.de								warn	warn	warn	warn	warn
		srm-dcache.desy.de								warn	warn	warn	warn	warn

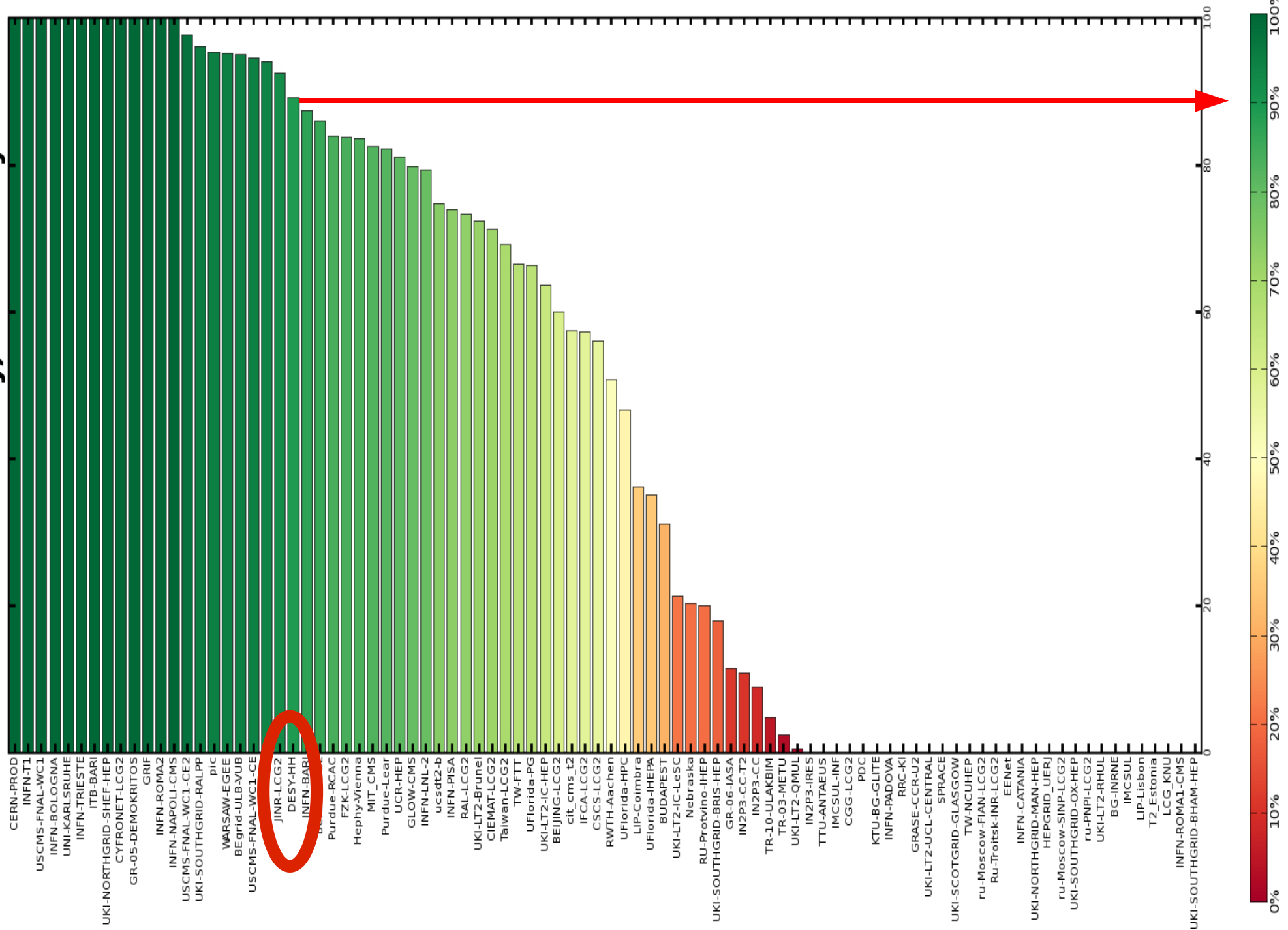
Service Availability

30 Days from 2008-01-20 to 2008-02-19 UTC



Site Availability Ranking

Site Availability, last 31 days



DESY-HH Dashboard

any user

DESY-HH (Hamburg, G

any ce

any submissiontool

any dataset

any application

any rb

any activity

any grid

☐ unk ☐ pend ☐ run ☐ term

☐ done ☐ canc ☐ abort ☐

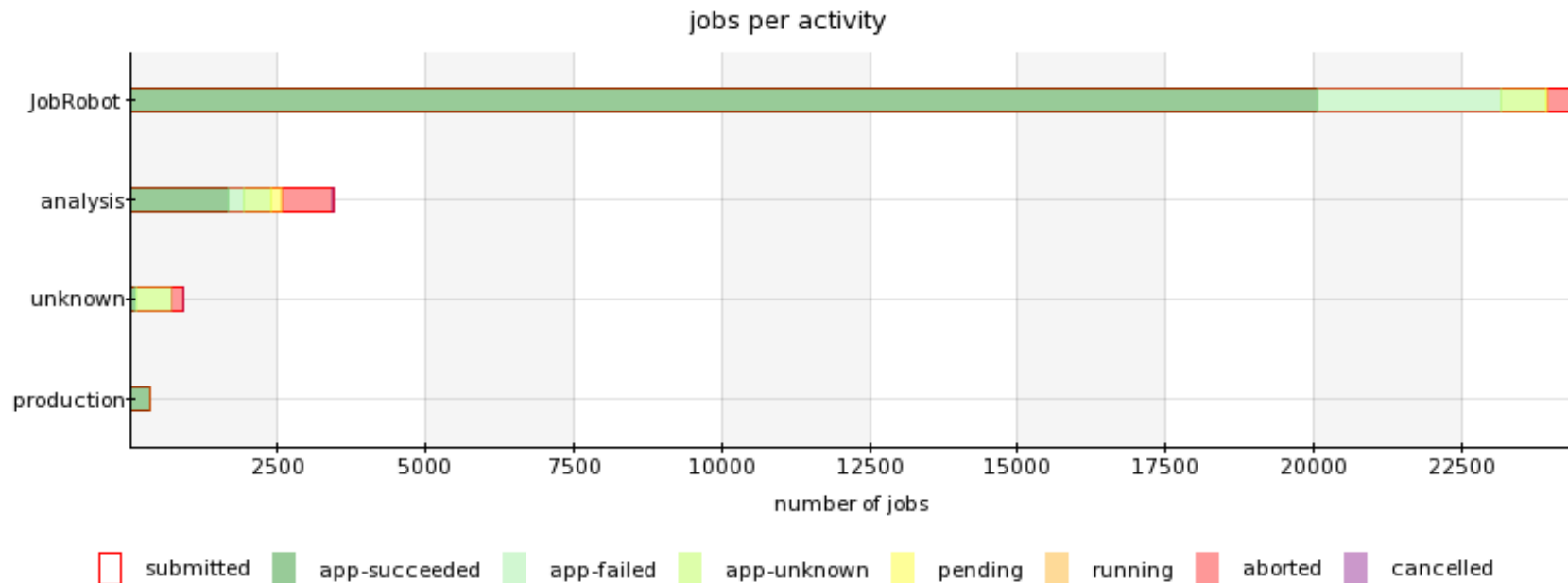
g-unk

☐ succ ☐ fail ☐ a-unk

☐ donesuccess

2008-01-23 09:03:55 to

2008-02-19 09:03:55



activity	dashboard						grid				application				overall	
	Sub	Unk	Pend	Run	Term	Done	Canc	Abort	Unk	Grid%	Succ	Fail	Unk	App%	D/S	Overall%
JobRobot	24401	0	4	0	24397	17484	1	460	6452	97.44	20060	3108	1229	86.58	14688	60.2
analysis	3461	0	148	43	3270	1241	47	826	1156	80.04	1667	278	1325	85.71	1071	32.75
production	340	0	0	0	340	337	0	2	1	99.41	336	0	4	100	33	98.53
unknown	904	0	0	0	904	659	3	186	56	77.99	93	29	782	76.23	66	7.3

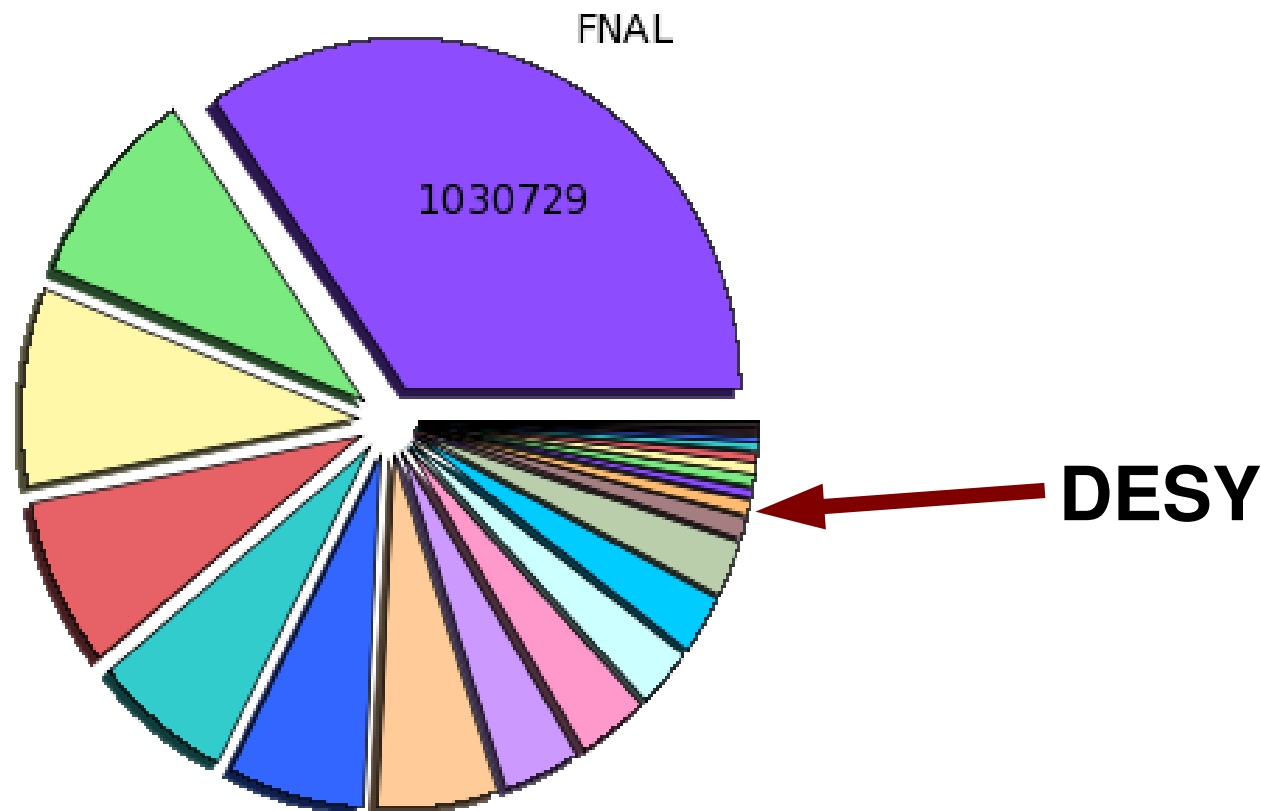
Dashboard - cont.

- Production efficiency is ok (>95%)
- JobRobot efficiency is ok/bad (depending on time) (**min: 0%** / **max 100%** / **average: 60%**)
 - the jobs with grid status **unknown** are **done** (Exit code 0) but have status **unknown** (or even **running**) but no errors???
 - **But:** sam-test ok!!!

MC Production

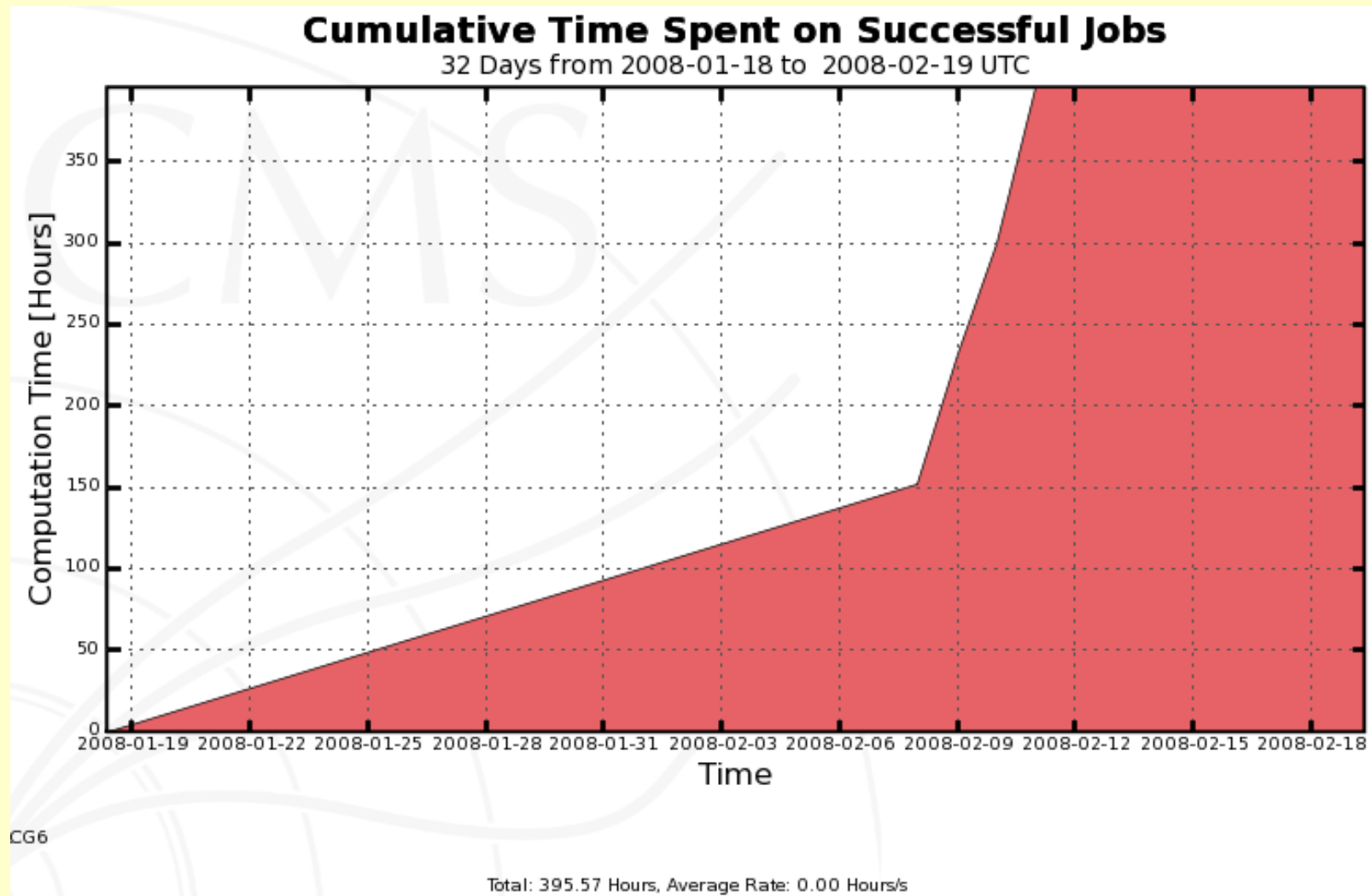
Time Spent on Successful Jobs (Sum: 2971597 Hours)

32 Days from 2008-01-18 to 2008-02-19 UTC

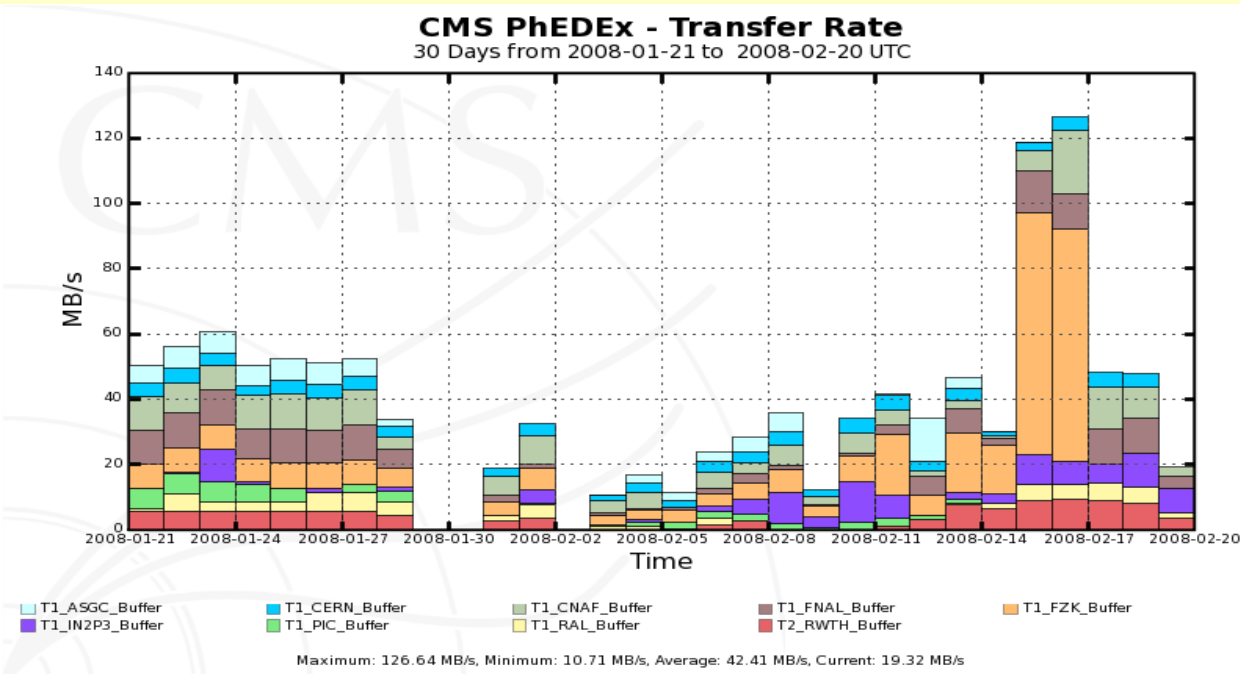


FNAL (1030729)	CERN (276411)	MIT (270164)	INFN (230203)	Wisconsin (200471)
Purdue (195345)	IN2P3 (172549)	FZK (110051)	UCSD (100989)	Florida (82102)
Pisa (81160)	Nebraska (74596)	Caltech (27986)	Bari (22584)	Legnaro (15554)
ASGC (15065)	London_Brunel (14896)	BUDAPEST (13504)	RAL (12480)	RutherfordPPD (5882)
Spain_CIEMAT (4675)	Vienna (3686)	London_IC_HEP (3294)	PIC (2008)	T2_Belgium (1849)
Belgium_UCL (1798)	Taiwan (779)	T2_DESY (395)	RWTH (361)	... plus 3 more

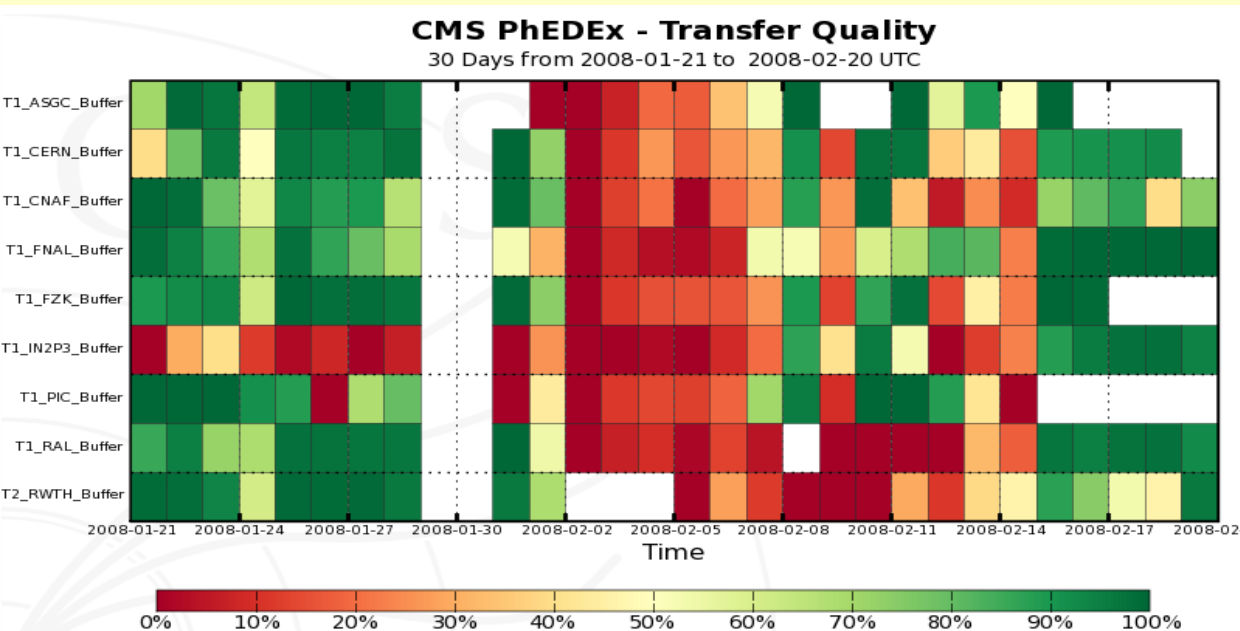
MC Production



PhEDEx – Transfers to DESY (debug)

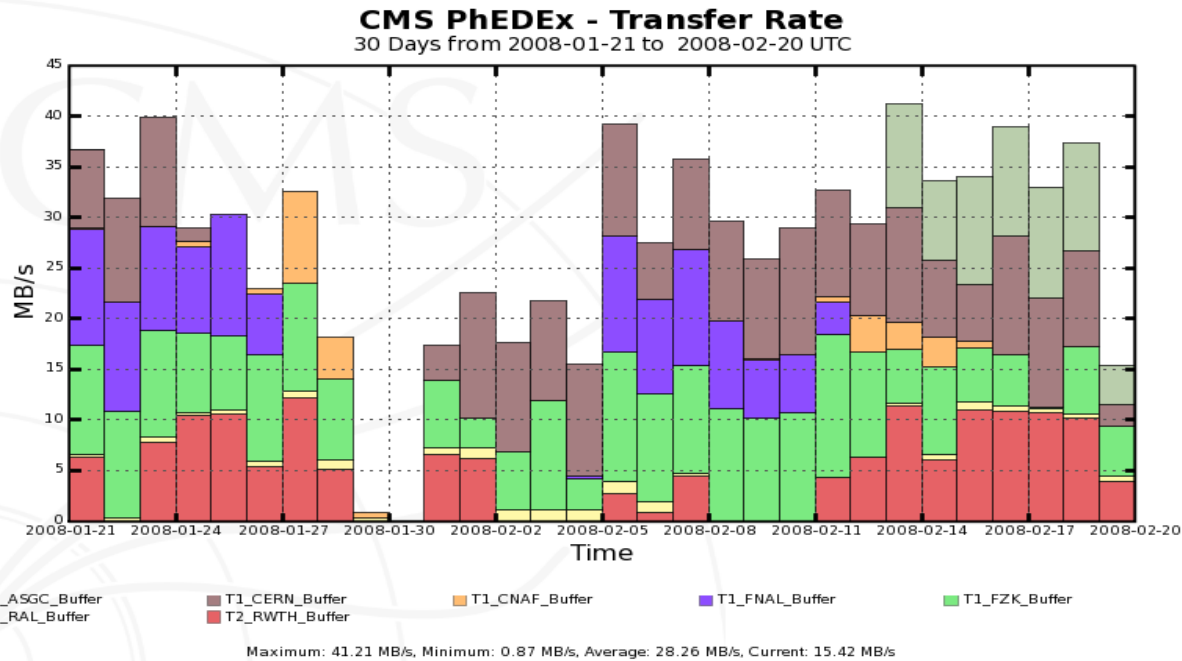


- Good performance
- Av. rate > 40 MB/s
- Peak rate > 120 MB/s

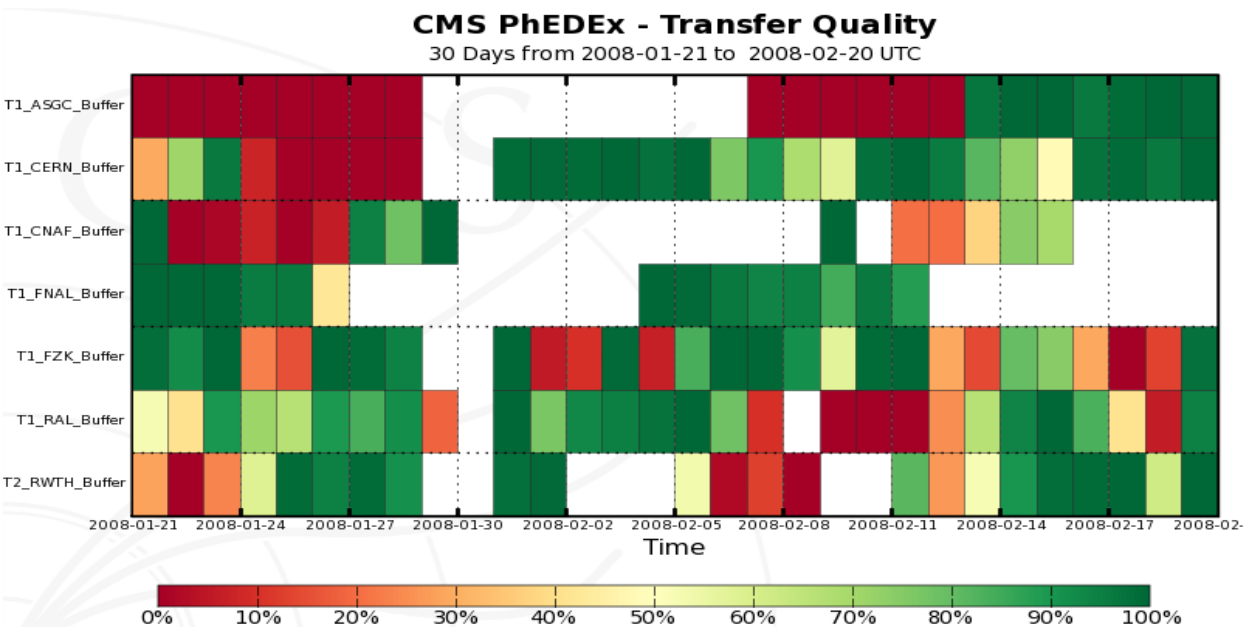


- Quality ok!
- Some problems with **full loadtest pool** and **srm out of memory** (upgrade to new version)

PhEDEx – Transfers from DESY (debug)

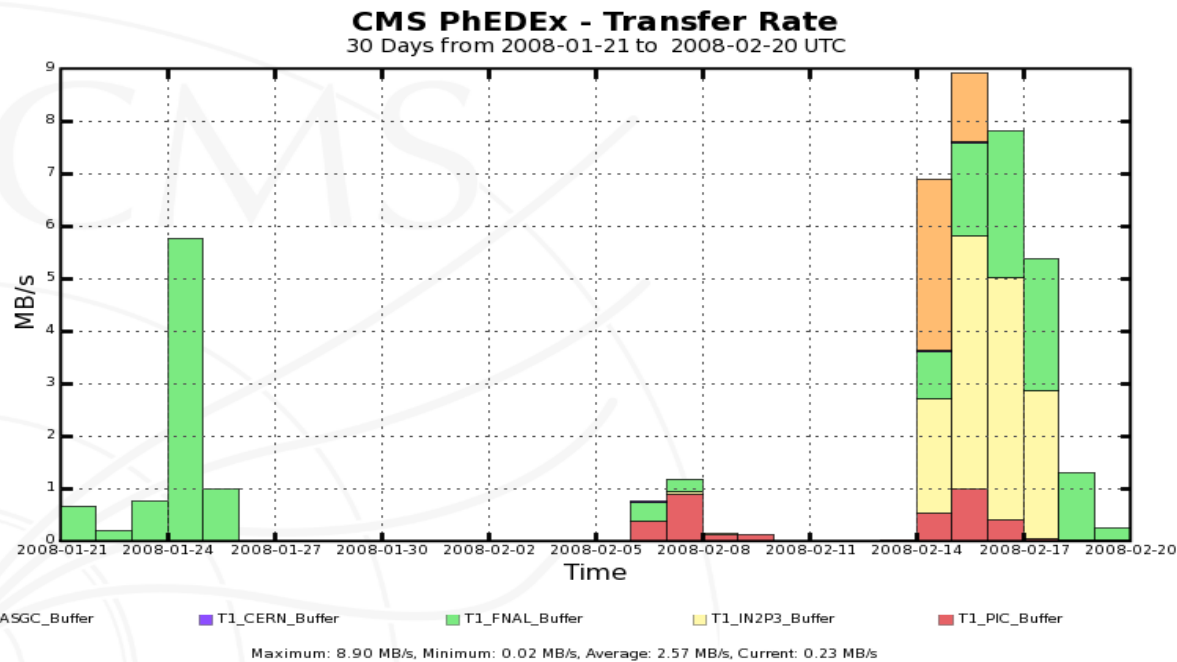


- Av. Rate > 25 MB/s
- Peak rate > 40 MB/s

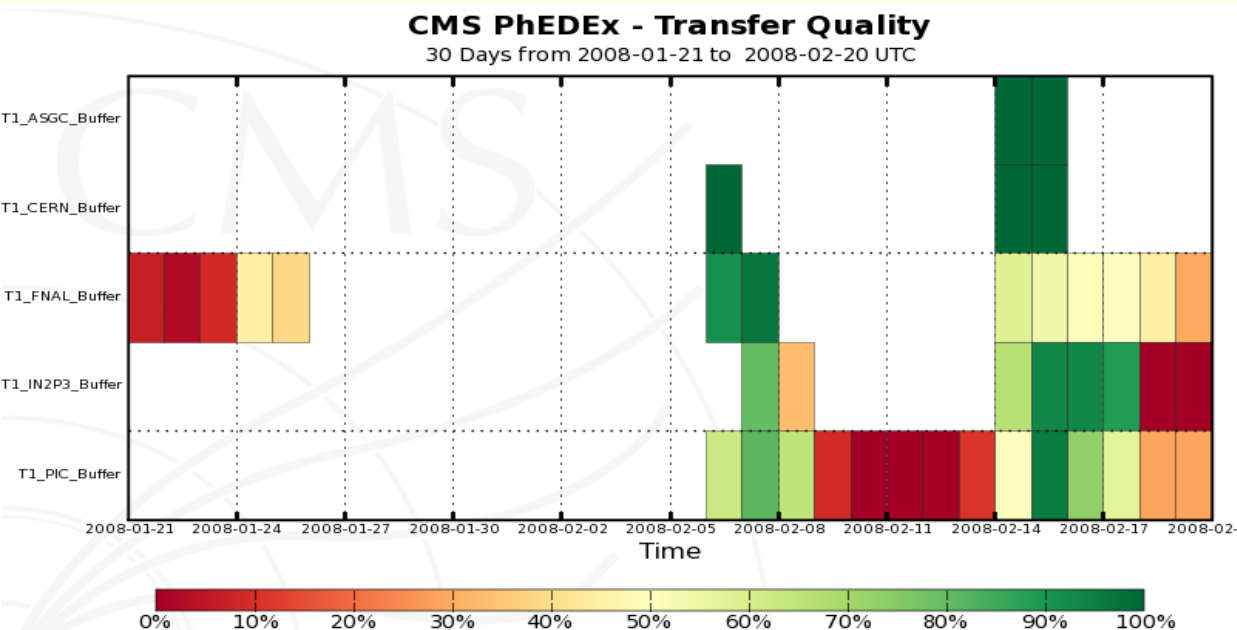


- Quality is good

PhEDEx – Transfers to DESY (prod)

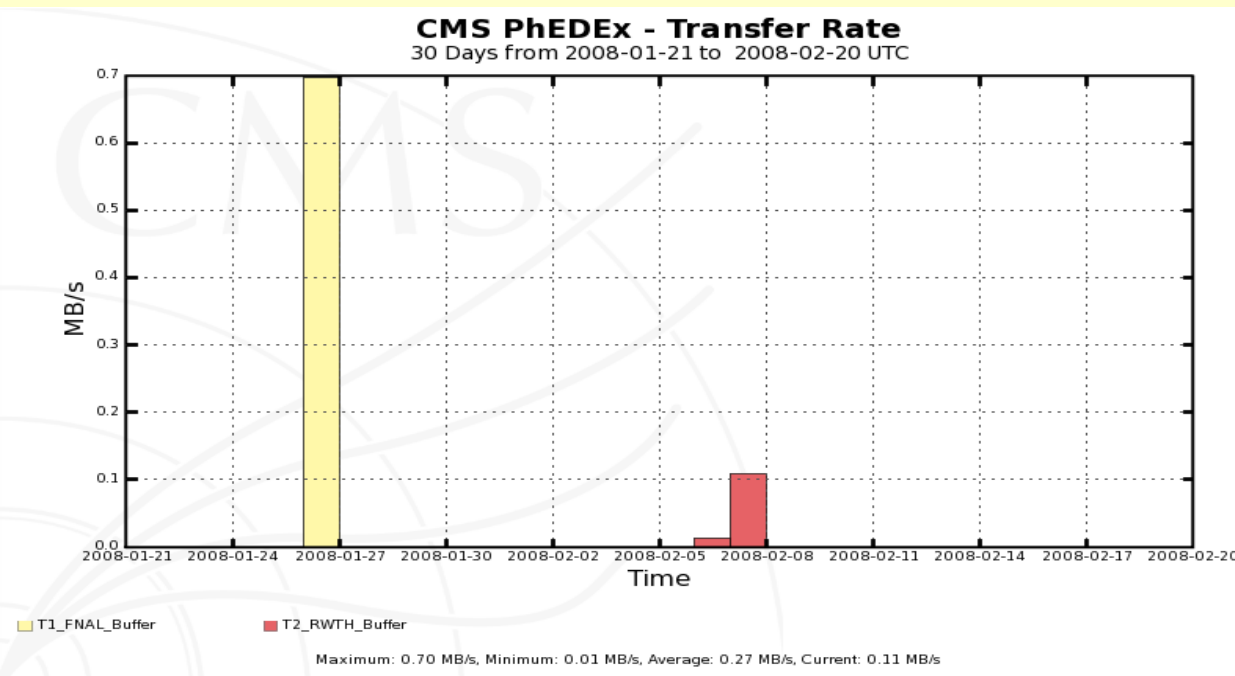


- Only few transfers of CSA07 skims
- Peak rate < 10 MB/s

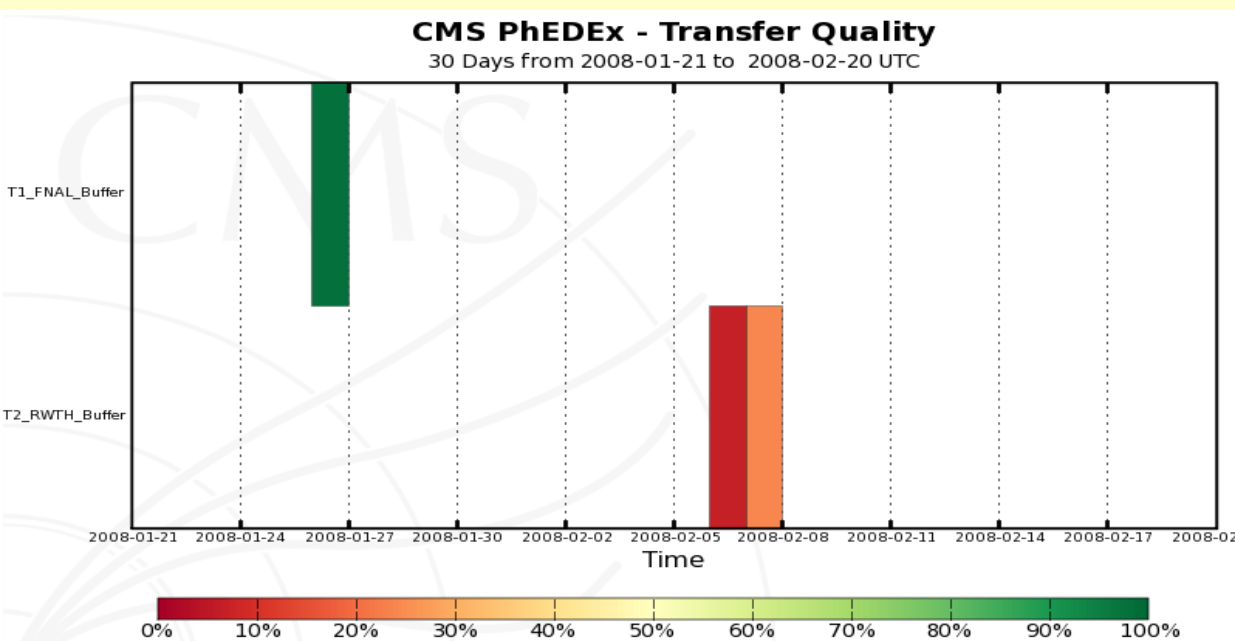


- Quality is reasonable
~ 50%

PhEDEx – Transfers from DESY (prod)



- Not much activity



- Not much activity

Status of Links to T1s

Metric for Periodic exercising of transfer links by the [DDT](#) Task Force:

- ◆ From each T1, check one T1 cross link and two T2 downlinks each day
- ◆ Link must maintain 20MB/s for 12h (843GB transferred in less than 12h), and 5MB/s for a T2 uplink.
- ◆ If link fails 3 days in a row, decommission
- ◆ Links which passed the testing metric in the previous 7 days are counted as PASSED.
- ◆ Test proposed to be done in Debug instance
- ◆ Scheduled downtimes exempt

To DESY

From Node ↓ To Node →	T2_DESY_Buffer
T1_ASGC_Buffer	
T1_CERN_Buffer	
T1_CNAF_Buffer	
T1_FNAL_Buffer	
T1_FZK_Buffer	
T1_IN2P3_Buffer	
T1_PIC_Buffer	
T1_PIC_Disk	
T1_RAL_Buffer	
T2_RWTH_Buffer	

Legend

	Link exists and is valid
	Link exists, but agents are down
	Link exists, but is excluded
	Link is deactivated
	Link does not exist
	Self-reference

From DESY

T1_IN2P3_Buffer	T1_PIC_Buffer	T1_PIC_Disk	T1_RAL_Buffer	T2_RWTH_Buffer

From Node ↓ To Node →	T1_ASGC_Buffer	T1_CERN_Buffer	T1_CNAF_Buffer	T1_FNAL_Buffer	T1_FZK_Buffer
T2_DESY_Buffer					

Pool Usage

- Enough space for unmerged MC files left

Space Info of group **unmerged** in view **PoolManager**

CellName	DomainName	Total Space/MB	Free Space/MB	Precious Space/MB	Layout (precious/used/free)
SUM	-	2969600	2890337	79262	
dcache-cms02-2	dcache1Domain	1024000	992735	31264	
dcache-cms05-1	dcache-cms05-1Domain	972800	954721	18078	
dcache-cms06-1	dcache-cms06-1Domain	972800	942880	29919	
SUM	-	2969600	2890337	79262	

- Loadtest cleaner had problems (problem with configuration) → solved !?

Space Info of group **loadtest** in view **PoolManager**

CellName	DomainName	Total Space/MB	Free Space/MB	Precious Space/MB	Layout (precious/used/free)
SUM	-	4116480	3184486	884202	
dcache-cms02-1	dcache1Domain	3133440	2803755	306609	
dcache-cms07_1	dcache-cms07Domain	983040	380731	577593	
SUM	-	4116480	3184486	884202	