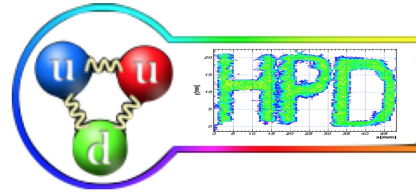




[www.ifin.ro](http://www.ifin.ro)



# NIHAM operations and plans

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IFIN-HH, DFH

Ninth Annual ALICE Tier-1/Tier-2 Workshop  
14-16 May 2019, UPB, Bucharest



MINISTERUL CERCETĂRII ȘI INOVĂRII



# NIHAM DC

- Developed and operated by NIPNE – Department of Hadronic Physics
- 2 computer rooms + utility rooms
- diesel generator, UPS, cooling...
- ~60% resources for ALICE



2005



2019

# Operations

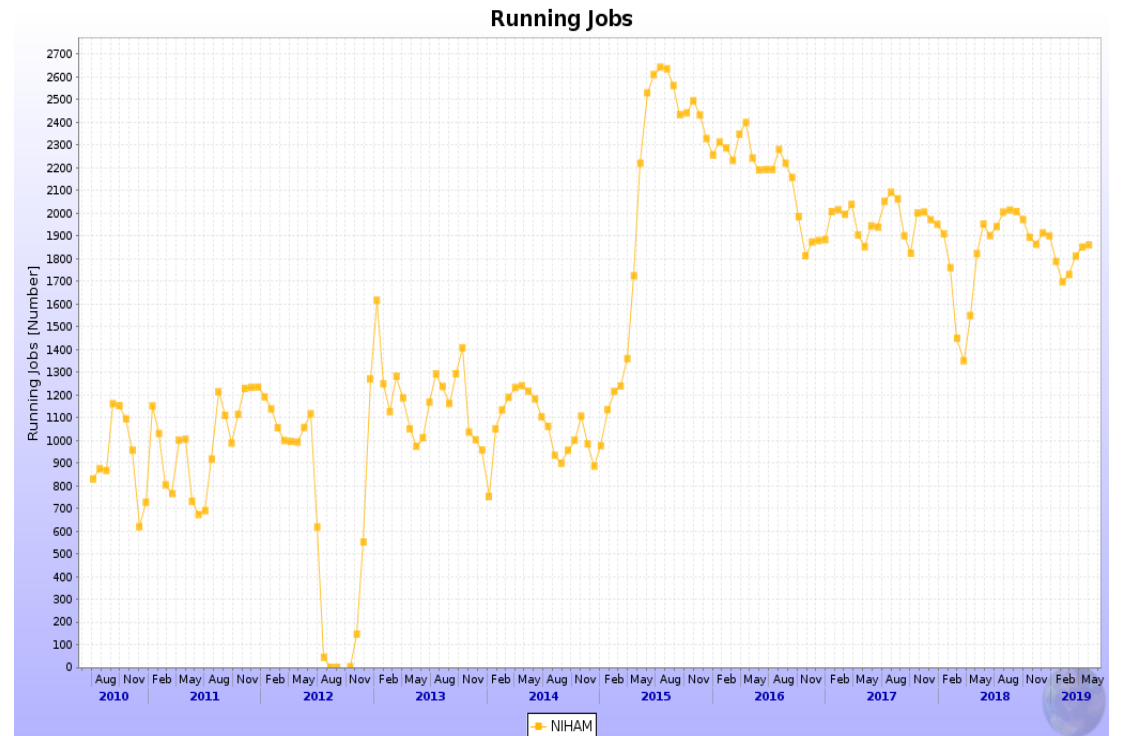
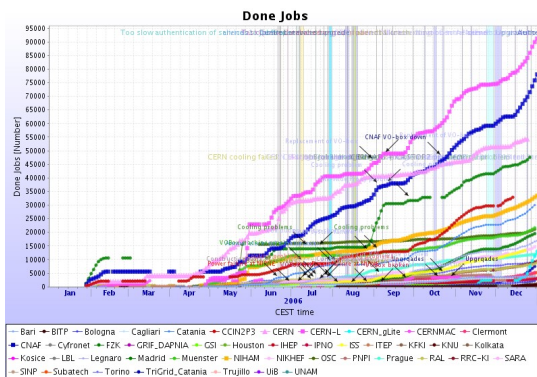
Participating in ALICE Grid since early days.  
In production since Sept. 2005

My Alien My Secure Alien User: [Nobody]

**Sites**

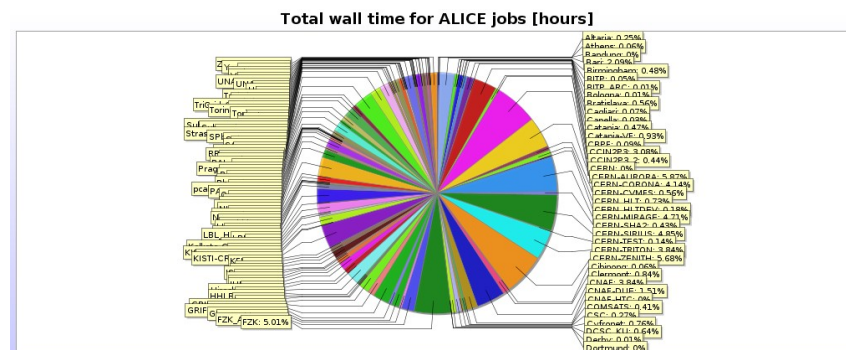
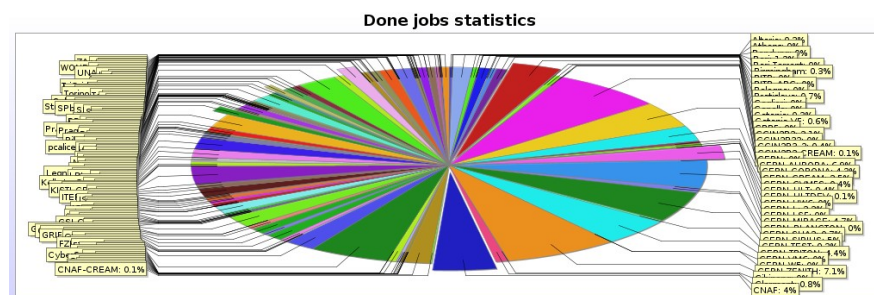
SITE	ADMINISTRATOR	LOCATION	DOMAIN
FZK	Kilian Schwarz <K.Schwarz@gsi.de>	Karlsruhe	fzk.de
CERN			cern.ch
Sejong	Chang Yeong Choi <Chang.Yeong.Choi@cern.ch>	Seoul, South Korea	sejong.ac.kr
Muenster	Jan Fiete Grosse-Oetringhaus <jfgrosse@uni-muenster.de>	Muenster	uni-muenster.de
GSI	Kilian Schwarz <K.Schwarz@gsi.de>	Darmstadt	gsi.de
CNAF	Giuseppe Lo Re	Bologna	cr.cnaif.infn.it
CCIN2P3	Yves Schutz <schutz@in2p3.fr>	Lyon	in2p3.fr
NIPNE	Claudiu Schiaua <csschiaua@cern.ch>	Bucharest	nipne.ro

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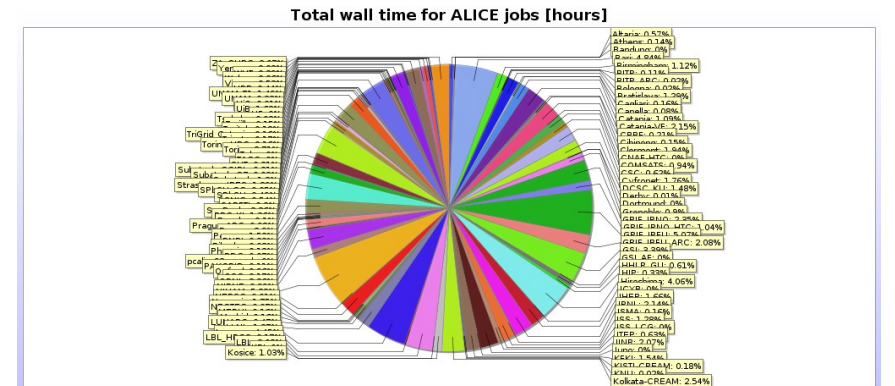
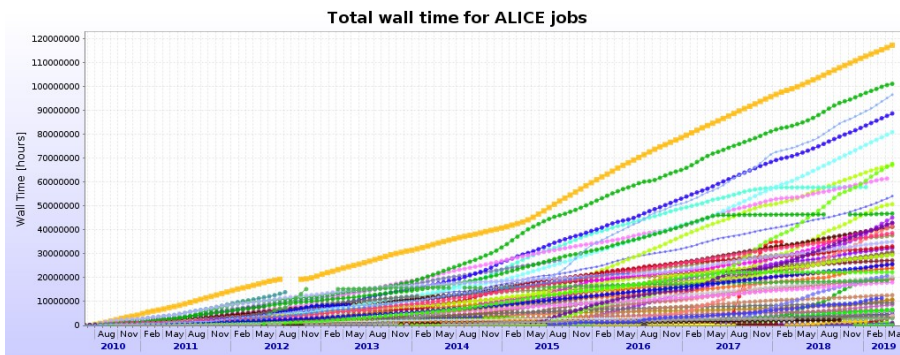
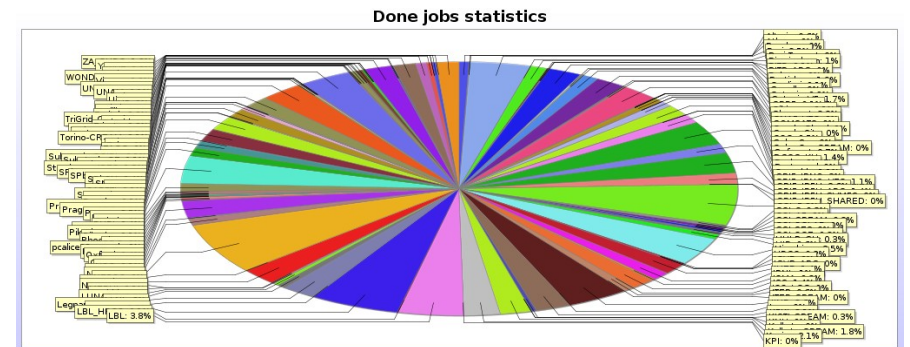
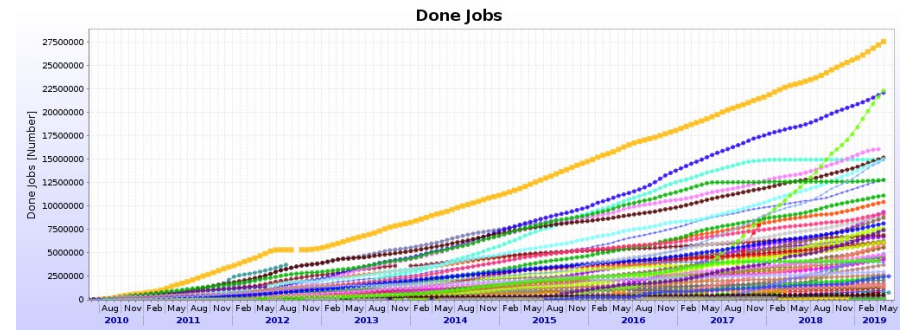
# Contribution to ALICE (1)

According to ML page, for the last 9 years we contributed ~27.5 M Done jobs, 2.3 % of Alice total, corresponding to ~117 Mh Wall time, ~ 2.5 % of Alice total.



# Contribution to ALICE (2)

Relative to T2s, fraction is 6.5% for Done jobs and 5.88% for Wall time.



# Contribution to ALICE (3)

37. NIHAM - EOS	ALICE::NIHAM::EOS	2	3.4 PB	1.577 PB	1.823 PB	46.38%	78,691,154	EOS	3.397 PB	1.581 PB	1.816 PB	46.55%	Xrootd v4.8.5	4.4.18
38. NIHAM - FILE	ALICE::NIHAM::FILE	2	830 TB	721.5 TB	108.5 TB	86.93%	13,826,356	FILE	829.2 TB	702.5 TB	126.8 TB	84.71%	Xrootd v3.2.6	

2 active storages, the old (xrootd) ALICE::NIHAM::FILE and the new (EOS) ALICE::NIHAM::EOS.

The new storage was bought with help from CERN (Latchezar).



# Plans

- Already started replacing old wns
- Hw extension - depending on financing
- Main objective: keep the current resource level
- Ipv6
- Os update