

LHCb, DUNE and ipv6

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LHCb and ipv6

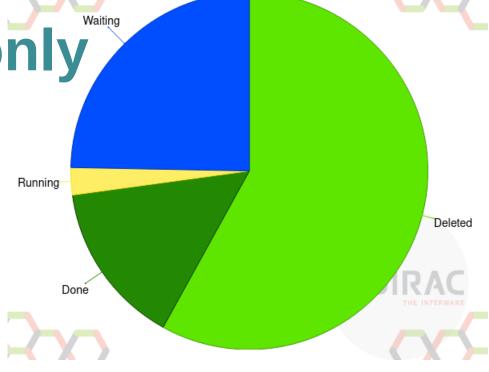
- → DIRAC made ipv6 compatible in 2015
 - Well used
 - LHCb, CTA, Belle, ILC, multi-VO installations, ...
 - Seamless usage on the grid
 - Dual stack and ipv4 / ipv6 alone
- → Recently many updates to DIRAC
 - python3
 - Some continuing headaches
 - To watch out for
 - REST interface for ARC CE





LHCb and ipv6-only

- → Looking at ipv6-only (Brunel)
 - Runs multi-core pilots
 - Right : Pilots finished in last week
 - Below : one multi-core pilot
 - We have a problem here?
 - Too few resources?
 - Only two running pilots
 - Idle machines in dc2-grid-25?
 - Otherwise running well
- → Brunel is so far the only site offering pure ipv6 resources for LHCb



~					
Status v					
Value					
47 (-75)					
12 (-44)					
2					
20					



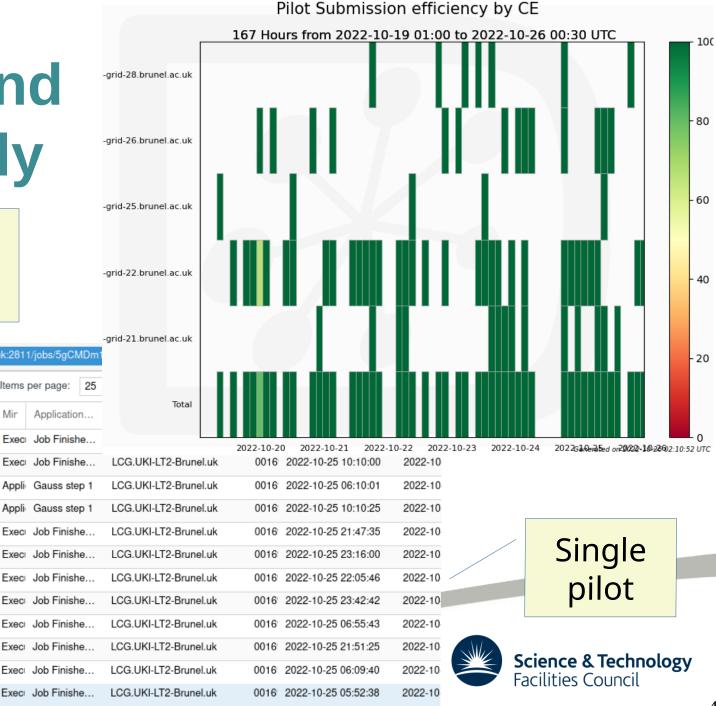
LHCb and ipv6-only

Brunel again

Done

Done

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LHCb and ipv6 connections

Connections to LHCb VO-box Configuration Service

Site	Dual-stack	Total	ipv6 only	Ipv6 fraction %
PIC	Yes	21351	10539	49
RAL	Yes	31449	168	1
NIKHEF	Yes	15353	7743	50
IN2P3	No	26787	0	0
CNAF	No	26358	0	0
GridKa	Yes	21142	10448	49
CERN	Yes	32895	16781	51

Connections in an approx 2 hour window yesterday to the VO-box configuration service



DUNE and ipv6

- → Mandate from DOE to move to ipv6-only by 2025
 - Fermilab ipv6 testbed available for use
 - Not yet used by DUNE for own services
 - dCache is already dual-stacked
- Most DUNE stuff from ATLAS / CMS / CERN
 - Glide-in, rucio, CVMFS, FTS, ...
- → No specific DUNE updates on ipv6
- → Will be adding storage tests to DUNE-ETF
 - Will look at adding a hook to ipv6 there
- → News later today from Nick / Phil

