

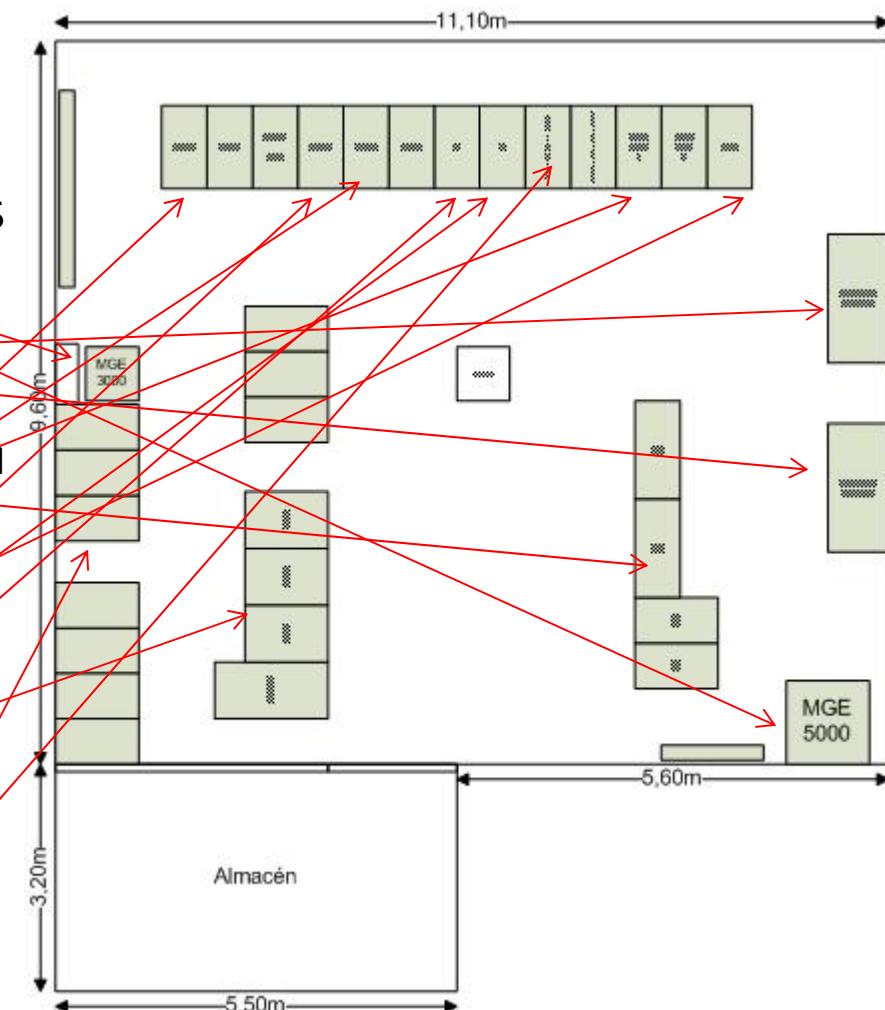
IFCA computing room (CPD)

Santander, 13 Sep 2013

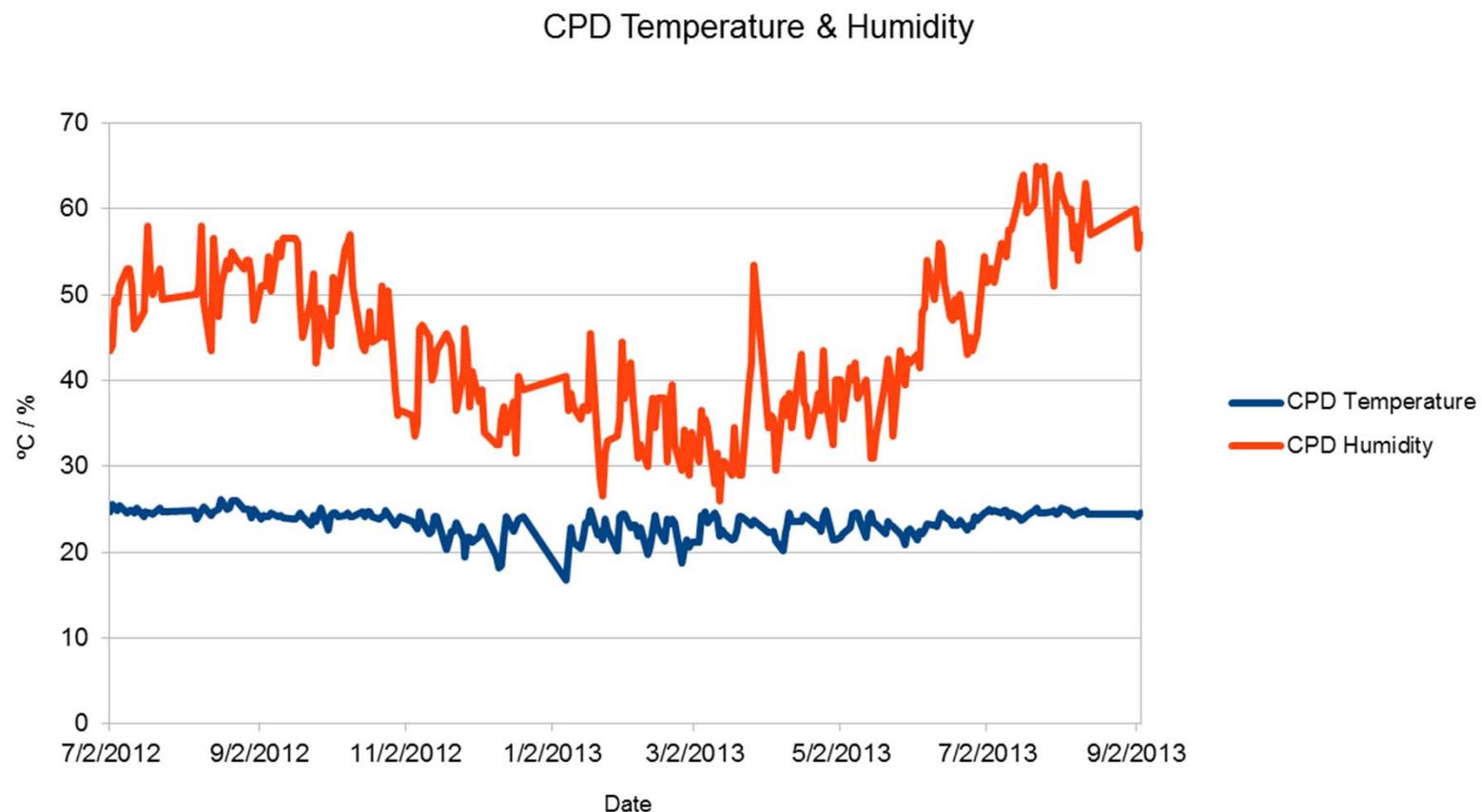
Prepared by J.Marco
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General description

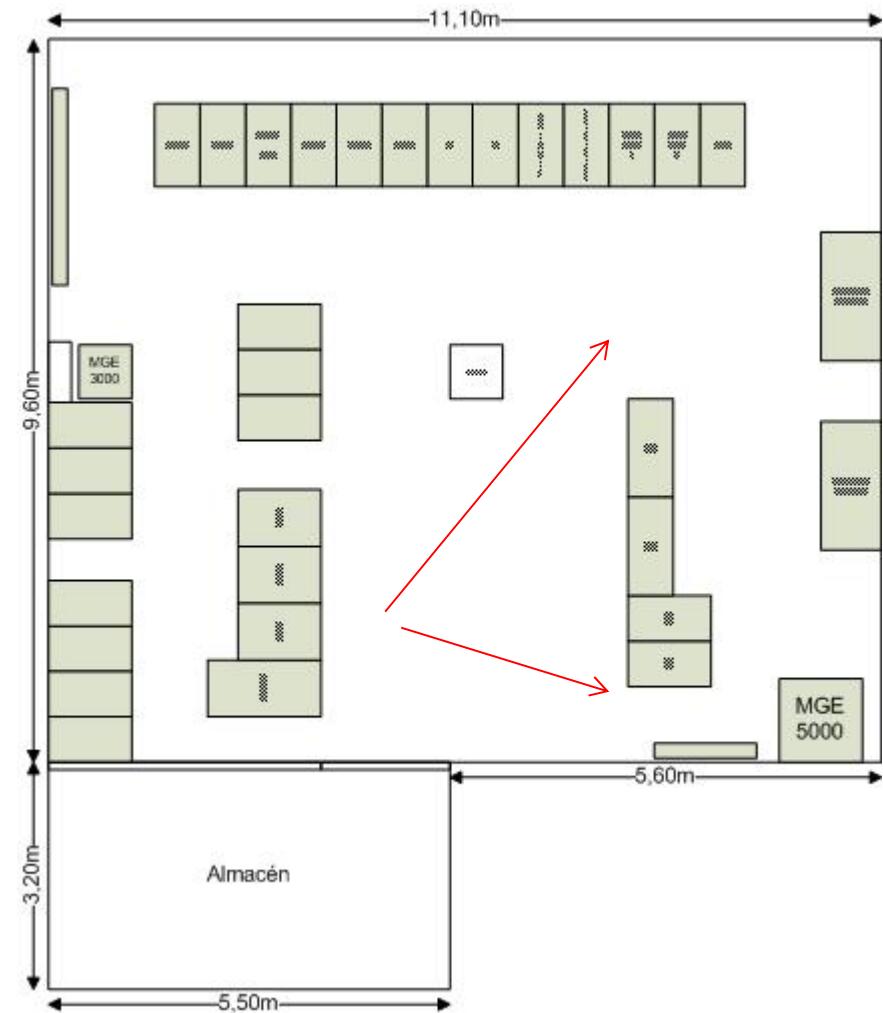
- Built in 2005
- >100 m², >3m high
- raised floor
- VESA alarm and fire extinction
- two electric lines with capacity up to 300kW, UPS for critical systems for 20kW.
- Monitored
- Air conditioning: 2 Hiross
- Equipment:
 - Altamira supercomputer(6 racks, IBM dx360M4, IBM x3550M4, IBM Power7, Mellanox switch)
 - GRID-CSIC blades (4 racks IBM HS21)
 - LHC Tier2 (3 racks: HP Blades, Fujitsu Blades)
 - Cloud servers (supermicro ucloud)
 - LHC Storage (2 racks DDN)
 - GRID-CSIC Storage (2 racks IBM DS)
 - Tape system (4 racks IBM L3480)
 - Old Altamira (3racks, IBM Js20, Myrinet switch)
 - Network rack (2 Force10, Cisco, Brocade 10G backbone)
 - Astro rack: HP DL385 x 4



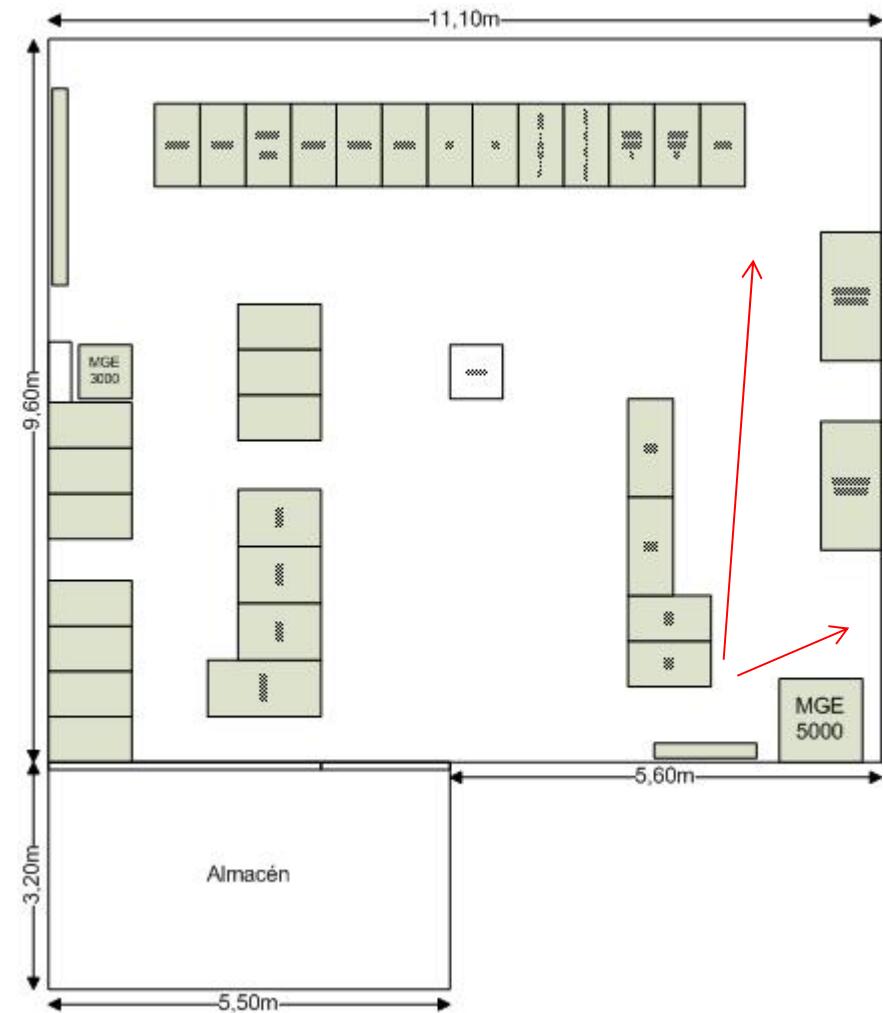
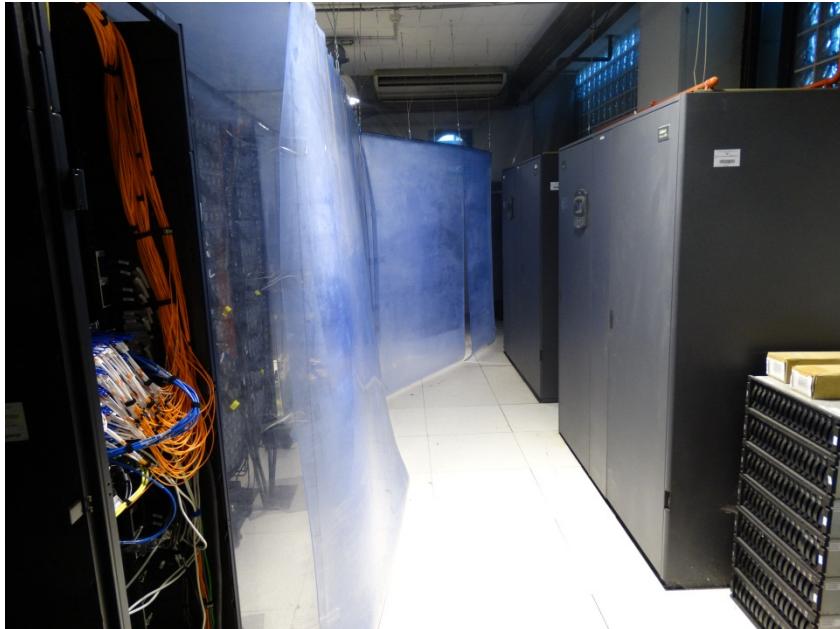
Daily check of conditions



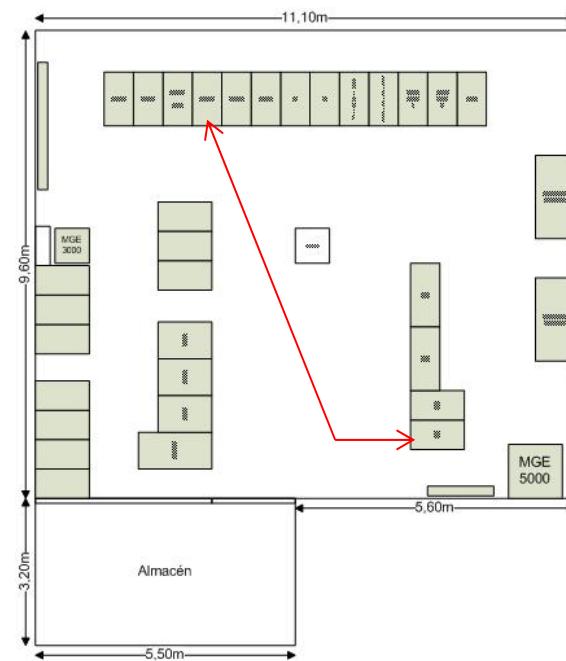
Actual photos (13 sep 2013)



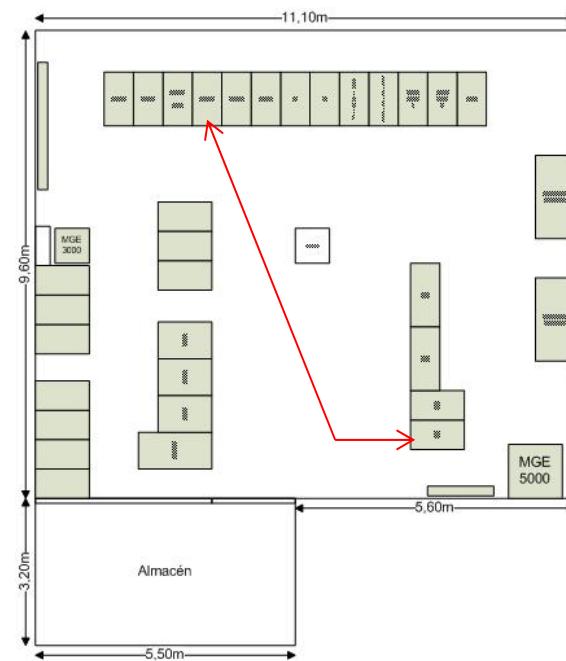
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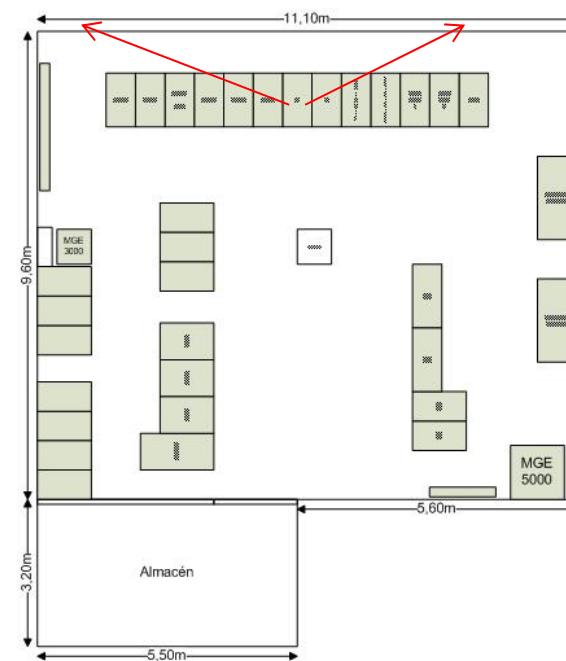
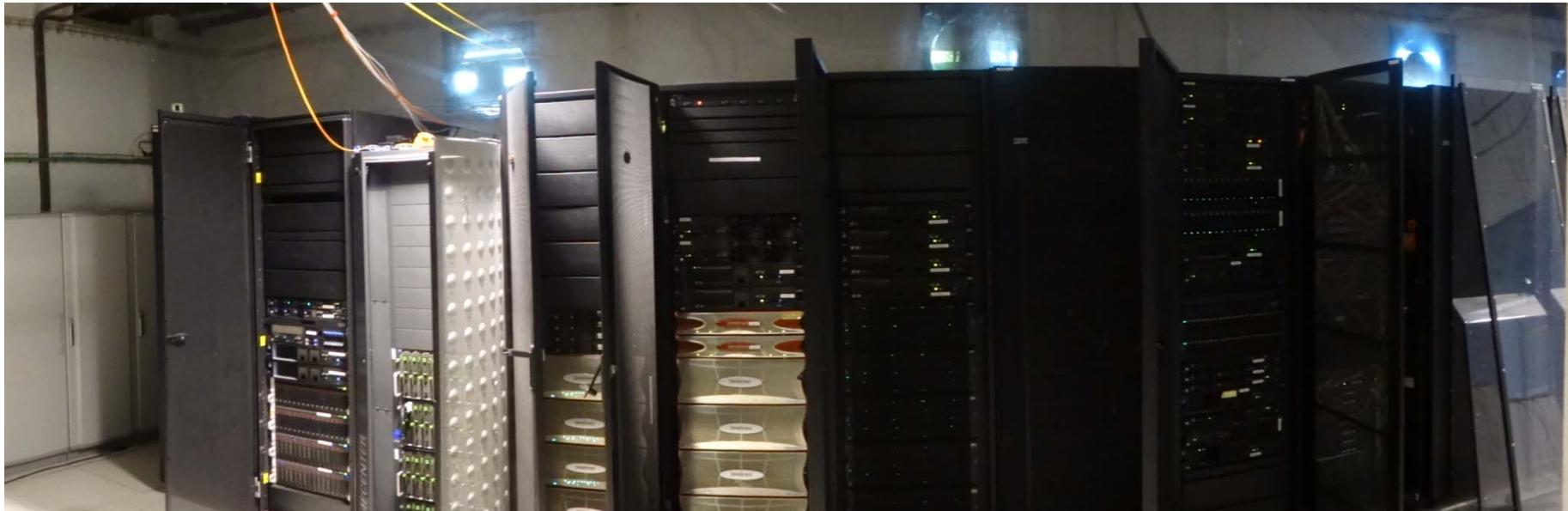
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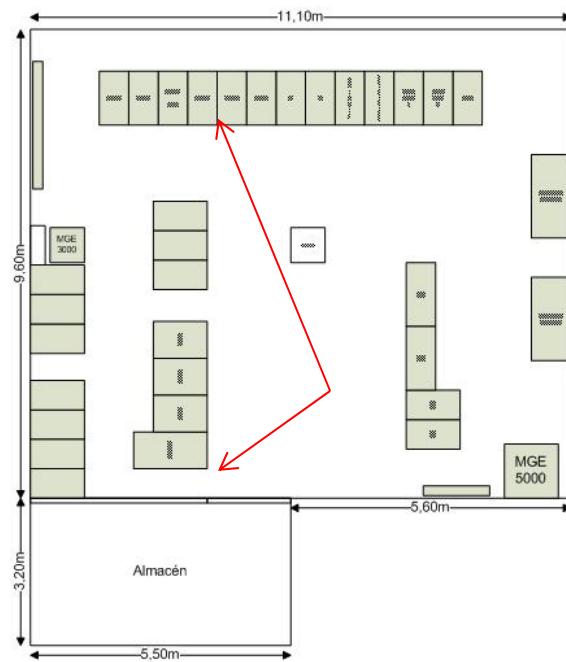
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IBM Servers from 2001 still working...

- We will have an international presentation in october in Amsterdam in CHEP2013 titled “Experience with a frozen computational framework from LEP age” where we will report on the possibility to run, after 12 years, exactly the very same linux version used for processing of CERN-LEP data on our 12 years old IBMx220 servers. These servers are stored since 5 years ago in the open hall close to our room. More than 30% of the original 80 servers boot and run linux without problems. There is no specific maintenance. The project aims to estimate how many servers will be alive after 20 years, that is the preservation required for these data.

