



LIGO Data Analysis System (LDAS)

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ACIGA Data Analysis

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Introduction to LDAS

- LIGO's primary data tool
 - 24/7 automated acquisition and archiving
 - Bulletproof distributed signal processing
- A valuable resource to ACIGA
 - ANU Data Analysis team develops for LDAS
 - ACIGA Data Analysis Cluster implements LDAS



No-one can tell you about LDAS...

...you have to experience it for yourself

Some results I prepared earlier...

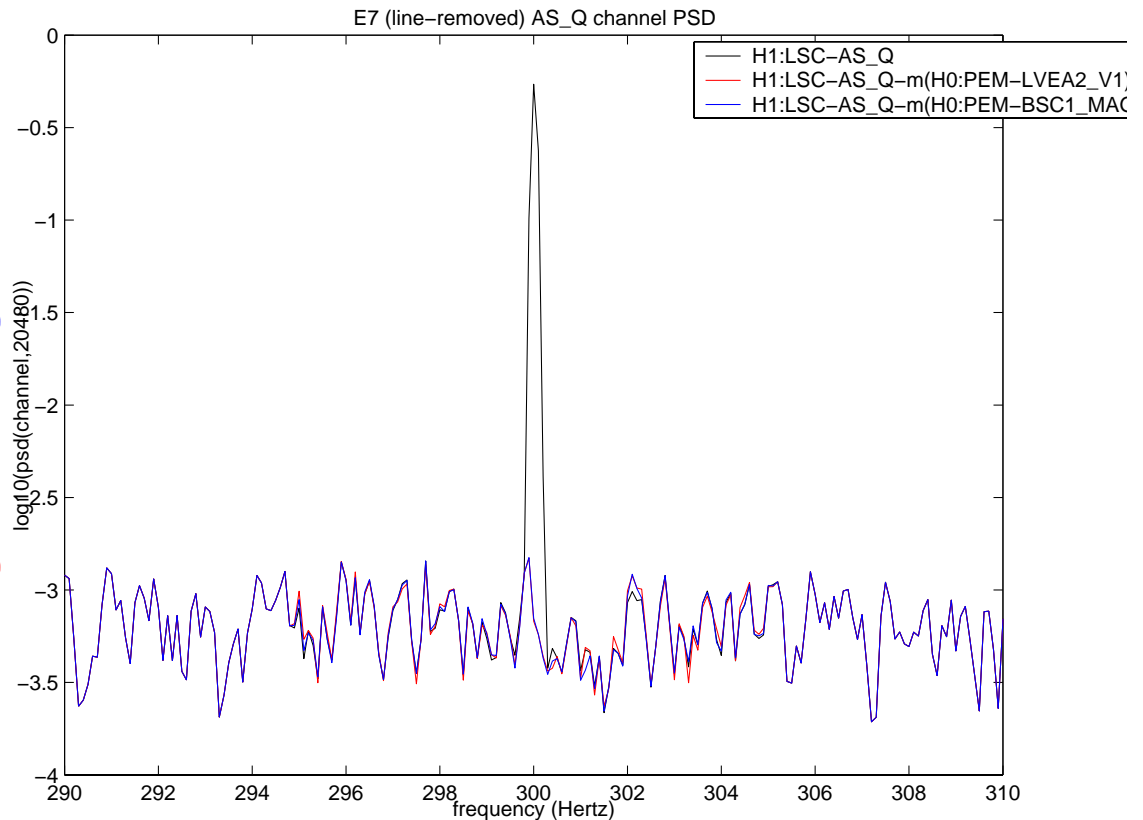
Before

After

(Magnetometer)

After

(Power monitor)





ADAC

- ACIGA Data Analysis Cluster
 - An LDAS implementation
 - Only such outside the USA
 - Linked to MDSS
- Primary computational resource for ACIGA



ANU Data Analysis Office

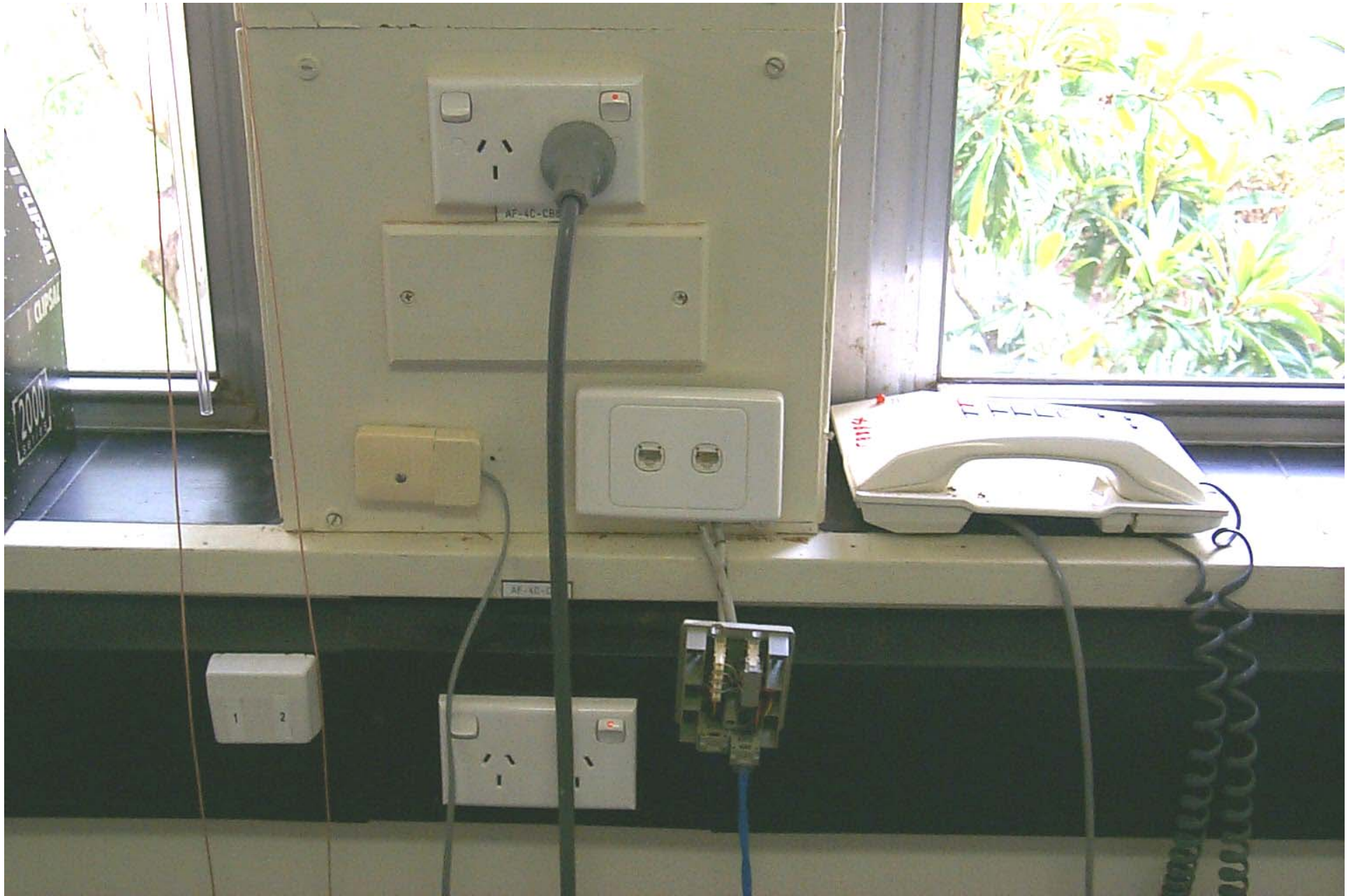


ADAC Specifications

- 3 Servers
 - Dual Xeon, 3 Gb ECC RAM, 4×72Gb RAID0, Gigabit Ethernet
- 8(+24) Nodes
 - P4, 512 Mb ECC RAM, 40 Gb ATA, Gigabit Ethernet
- Half cabinet Gigabit Ethernet Switch
 - 3×Gigabit, 2(+2)×8×10/100 ports
- Sony Advanced Intelligent Tape 2 (AIT 2)
 - Internal drive
 - 20(+20)×75(±25) Gb tapes ≈ 1(+1) Tb
- 14(+24) processors, 13(+12) Gb RAM, 3(+1) Tb store, 4(+30) Gigabit bandwidth



ADAC Theft Deterrence System



Miscellaneous Sockets



Network Box (Here)



6kW Entropy Sink



Contractor “Smoko”



ADAC Commissioning Status

- Installed
 - Power, Network Cabling, Air Conditioning, Blinds
- Installing
 - Switch
- Purchasing
 - Computers, Desking, Node Rack
- Future
 - Tapes & drive