



# JREI PC Farm

- What is the JREI?
- What did we get?
- What do we do with it?

# What is (was) the JREI?

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## Joint Research Equipment Initiative:

- A scheme where UK research groups could bid for equipment in “partnership” with industry
  - commonly “partnership” = “discount”
- Has run for the last few years
- Final round was in May 2001
- Bids for up to £200k
- PPARC had £600k allocation

# Final Round, May 2001

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It seemed worth a go...

- Trigger simulation seemed our best bet
- Based scientific case on trigger optimisation
  - with nods to physics studies, Grid,...
- Bid for a PC farm
  - 30 dual 1.7 GHz P4 + 4 TB RAID
- Wrote & submitted a bid (in ~ 2 weeks)
  - Thought that would be the end of it.....

# Then five months later

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They accepted the bid!

- I received an email saying that they would give us £100k
  - I'm still waiting for the letter...
- Money available from April 2002
- 6 months to spend it
  - slightly tighter schedule than we'd requested
  - but I guess we'll cope 😊

# What will we do with it?

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## Trigger optimisation:

- How do we most effectively use the trigger?
  - existing “trigger menus” are hardly realistic
  - many possible lumi/background/physics scenarios
  - need to generate & analyse large data samples

## Other uses:

- Other calorimeter trigger groups could use it
  - Grid-like application
- ATLAS service
  - contribute to data challenges
- Other simulation studies (e.g. physics)

# What do we do next?

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The bid has been scaled down:

- Bid for £174k, received £100k
  - but bid based on May 2001 costs
  - will be another round of negotiation before purchasing

Need more than hardware:

- Also need to ensure have software to run on it
  - use existing Linux PCs at Birmingham to learn before Farm arrives

But will give us the capability to perform serious productions and studies ourselves