SCSI ordering after exception on non interlocked transports

Orlando-January-2001

Julian Satran

IBM Research Lab in Haifa





#### • Exception at the target do not all cause ACA

- ◆ Task set full
- ♦ Busy
- reservation conflict
- ◆ ACA active
- The effects that commands get executed out of order and there is no way for the initiator to control this



- Create an ACA like behavior (Charles Monia)
  - ◆ Close gate
  - Return first command after queue and drop all others
  - ◆ Initiator opens gate
  - Initiator resends all commands after
- Create "queue" frozen state at the target and associate it with a syndrome code (the exception cause)
  - Mark all received command after that that have the same syndrome and keep the as long as you can
  - ◆ A new "stop point" change syndrome



### Solutions (cont.)

# ♦ Initiator

- Thaw the queue for all command with the same syndrome and refreeze if syndrome changes
- Pro no commands reissued if there is no need
- ♦ But complex



#### What should be done

# Specify it through SAM for all on interlocked protocols

Choose one mechanism or both