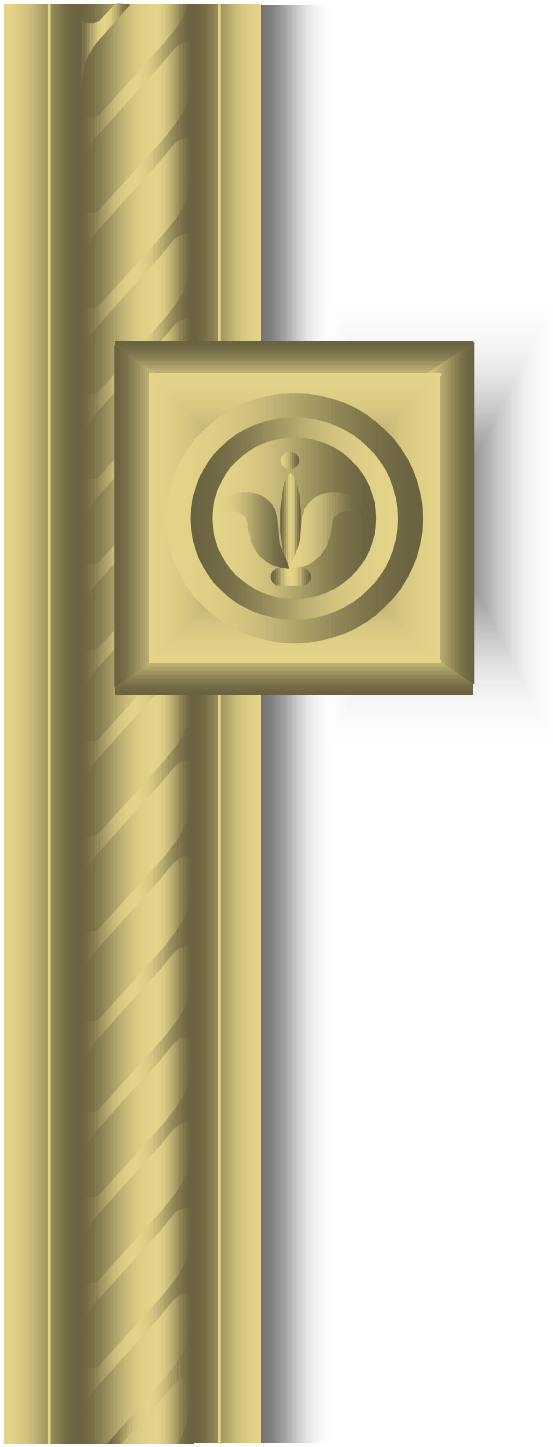

SCSI Harbor Status

Benjie Sun

Silicon Graphics, Inc.

Status Summary

- **Estimated project completion Dec 1999**
- **Testing delays due to resource/prototype delays**
- **Product design on hold until testing phase begins**

Progress

- **Backplane design emerging (Molex/QLogic)**
  - **3/24/99 completion date**
- **Completed thermal test protocol**
- **Established rotational vib test protocol**

Schedule

- **Testing**
  - **Finish prototyping March 31, 1999**
  - **Complete thermal testing April 30, 1999**
  - **Conclude vib testing Jun 16, 1999**
- **Design**
  - **Revise design Jul 99 (retest)**
  - **Revise design Oct 99 (retest)**
  - **Finalize design Dec 99**
- **Fab Cycle - assume 4 weeks**

Deliverables

- **Hardware**
  - **Wrapper, handle, bezel, vib spring, PCB cover, EMI tabs, shock bumpers**
  - **dock, guide skis (top and bottom)**
- **Information**
  - **SCSI Harbor Specification**
  - **Test protocols and results**
  - **List of adopters/approvers/qualifiers**

Resources

- **SGI - project coordination/design, prototyping**
- **Intel - project design, testing, prototyping**
- **Molex/Qlogic - backplane design and prototyping**
- **IBM, Seagate, Quantum, Fujitsu - drive supply and testing**
- **Consultant, Vibrationdata.com**

Issues

- **Design**
  - **LED solution to be in wrapper (light pipe)**
  - **EMI solution - upgradable attachment**
  - **Rotational vibration spring**
  - **Manufacturability**
    - **castability - draft, tolerances, tooling**
    - **Isolation bumper assembly**

Issues

- **Testing**
  - **prototype delays (cost: $9300x2)**
  - **connector cable issues (thermal)**
  - **locating thermal testing technician**
  - **locating rotational vib testing technician**
  - **require multiple (4) backplane prototypes**
  - **drive receipt (20 thermal, 40 vibration)**

Issues

- **Drive Receipt (60 per drive mfgr)**
  - **Thermal (3/24/99)**
    - **20 thermocoupled drives**
      - **5 1.6” drives, 5 1.0” drives from family A**
      - **5 1.6” drives, 5 1.0” drives from family B**
  - **Rotational Vibration (4/7/99)**
    - **40 drives**
      - **10 1.6” drives, 10 1.0” drives from family C**
      - **10 1.6” drives, 10 1.0” drives from family D**

Goals for Next Review

- **May 6, 1999 - Manchester, NH**
- **Testing**
  - **Discuss thermal test results**
  - **Discuss initial vibration results**
- **Design**
  - **Show detailed feature design for wrapper, handle, and bezel**
  - **Revise EMI solution**