



Computer  
History  
Museum

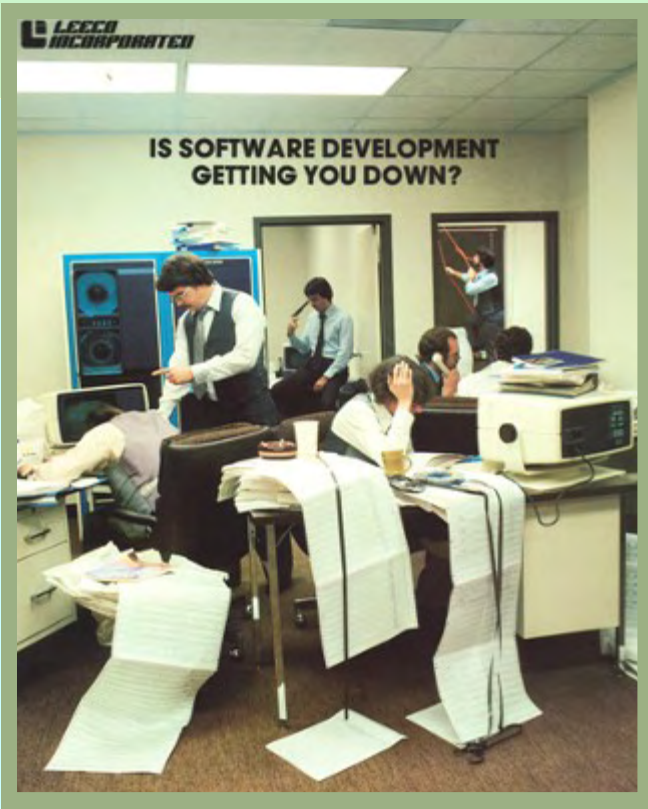
# A DIGITAL REPOSITORY YEAR: one museum’s quest for the basics

Paula Jabloner, Digital Repository Project Director

Confront the problem: preparation

July-September 2011

- ∞ Define the problem & understand the catalyst
  - ∞ 60 terabytes of Museum produced high definition (HD) video
  - ∞ with no sustainable back-up or preservation methods
- ∞ Cultivated permanent stakeholders from senior management & the Board
- ∞ Engaged cross-departmental **core team** of 4 digital preservationists

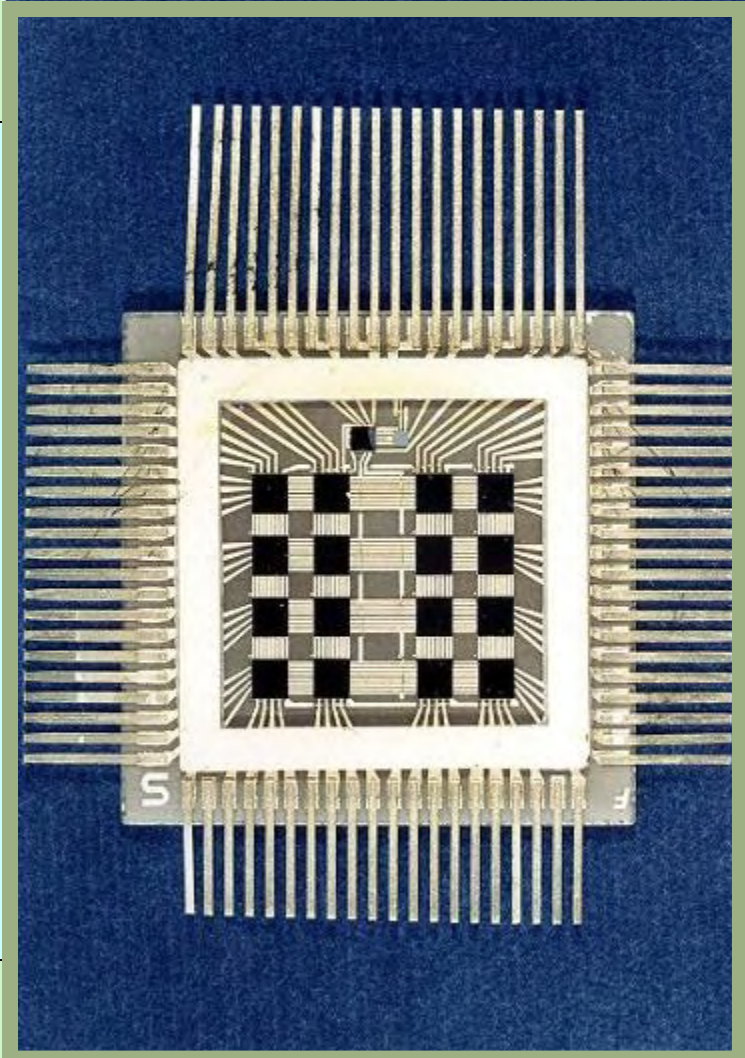


Marketing Brochure, Leeco Inc., 1981 #102646182

Create the Probable Solution: planning and more planning

October-December 2011

- ∞ October 1st received start-up funding from Google.org Foundation
- ∞ Digital repository consultant hired
  - ∞ The ‘authority’ she gave the project in the eyes of the stakeholders was invaluable
- ∞ Created concise **Project Charter**
  - ∞ purpose, objectives & deliverables, assumptions, scope, staffing, roadmap
- ∞ Survey the Museum’s ‘archival’ digital objects
- ∞ Current literature survey & wrote best practices guide

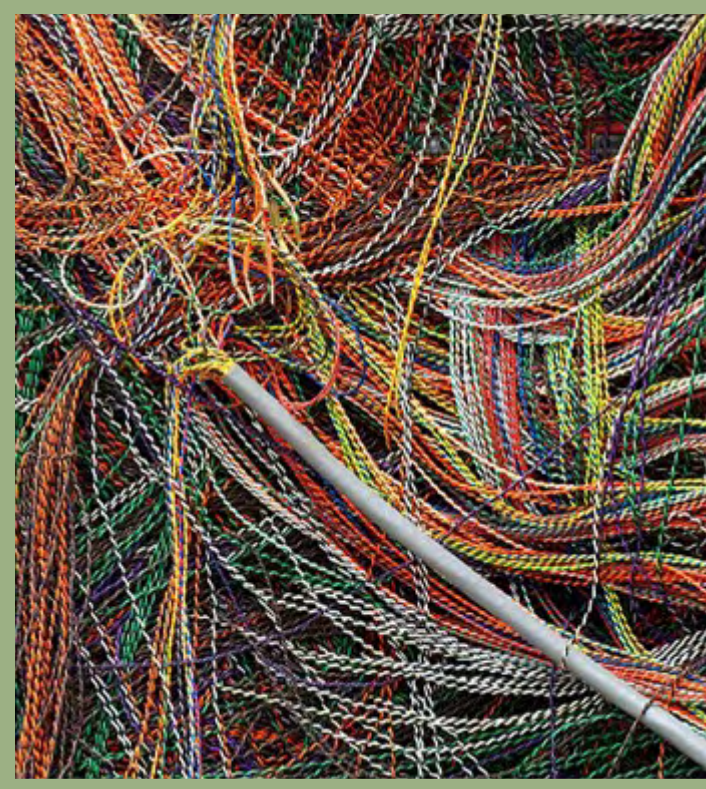


Early integrated circuit memory, Fairchild Corp., 1968, #500004584.

Curation: policy & framework

January-June 2012

- ∞ Digital repository management software functional requirements
- ∞ Survey and test drive open source digital repository management software
  - ∞ **Archivematica** chosen
- ∞ Recruit and hire storage infrastructure consultant
  - ∞ Explore storage options, configurations, & pricing
- ∞ Policy document completed

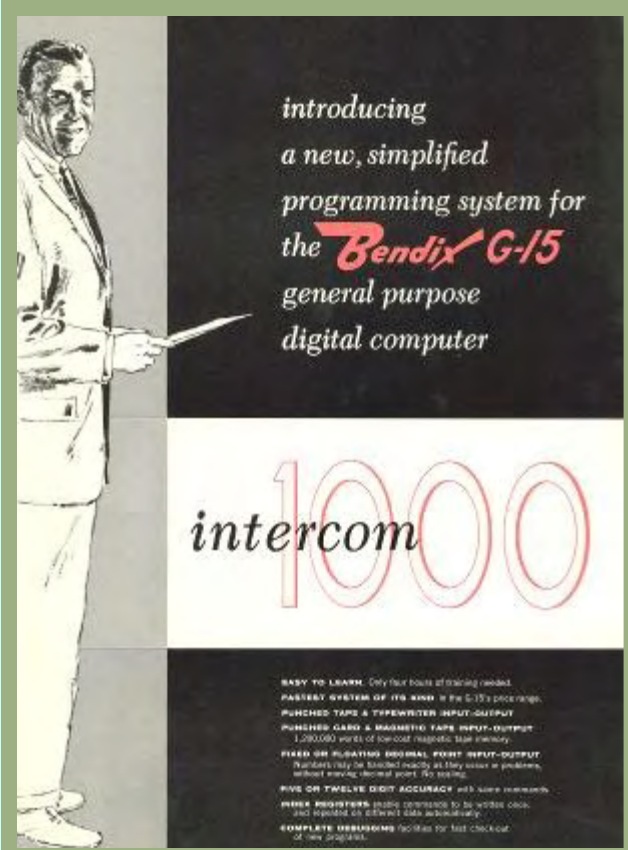


Backplane wiring of the CDC 7600 supercomputer, c. 1969

Closure?: prototype

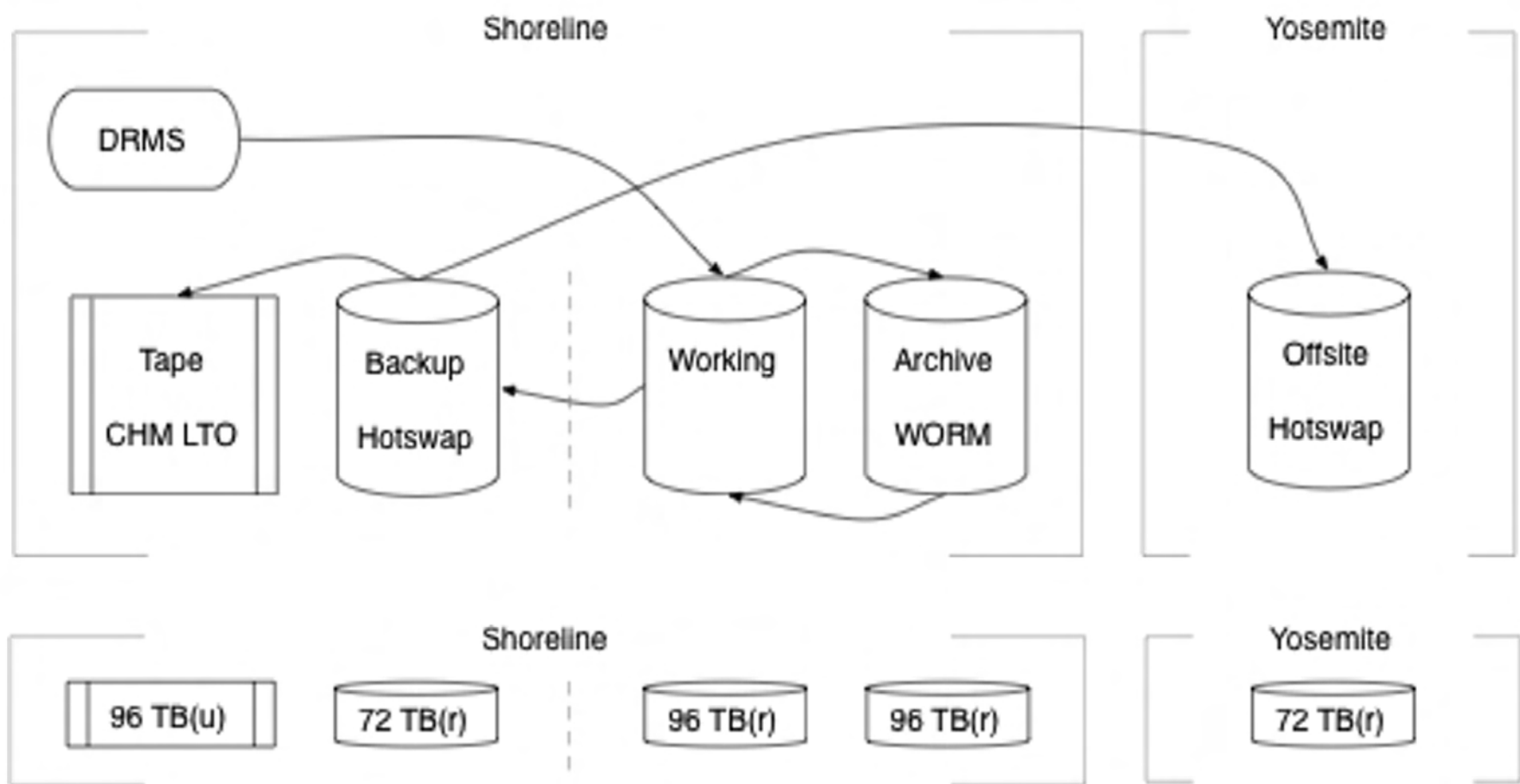
July-September 2012

- ∞ Testing of storage infrastructure (hardware & software stack)
- ∞ Purchase and install storage infrastructure & **Archivematica** software
- ∞ Ingest test digital objects while creating procedures document
- ∞ 5-year sustainability plan
- ∞ Prospect for year two funding
  - ∞ Funds for ingest, full deployment, prototype an on-line user interface



Marketing Brochure, Bendix Corporation, 1955, # 102646231

And the Presumed Winner is.... CHM built DIY



	Each
Server	
IBM x3650M3	\$10,000
Storage	
60 Slots JBOD (DataON-1660)	\$10,995
28 Slots JBOD (CSE-837E16-RJBOD1)	\$2,000
3TB - 6G SAS-2 drive (Enterprise)(24/7)	~ \$450
3TB - 6G SATA drive (Hitachi Ultrastar)	~ \$200
4TB - 6G SATA drive	~ \$300
Slots (backup / working / archive) (offsite)	
TB raw (based on 3TB drive)	
Software	
Commercial ZFS (NexentaStor)	~ \$10,000
Opensource (NAS4Free/FreeBSD)	\$0
Opensource (OpenSolaris/napp-it)	\$0
Opensource (Linux+LivermoreZFS Kernel)	\$0
Total	