Exhibit X Part 2

N. CA SGML Users Group Mtg   12/2/63

- Dennis Amon, XEROX PARC
- LISTSERV (Dan Pitty @ UCB Library)
- Next meeting in 2 months
    $50/anum - individual
    $25/meeting ('15 member)
    $300 /corporate
    ⇒ <TAG> subscription $75/yr (norm $180/yr)
+ Roger Vlotson, Pres. S.CA SGML Users Group

+ Documention in LA (February)

Steve Schmidt (SGI/IriSight)] Visual Magic Division
  - Victor Riley   }

  - Approach
    - Challenges
    - Why and How SGML Publishing
    - IRIS InSight Highlights
    - Digital Media Strategy
    - Authoring, Publishing

- Translate Tech for customer value
  - Full-text index search
  - Hypertext ...
  - Digital media
  - Low cost authoring ...
  - Legacy Data

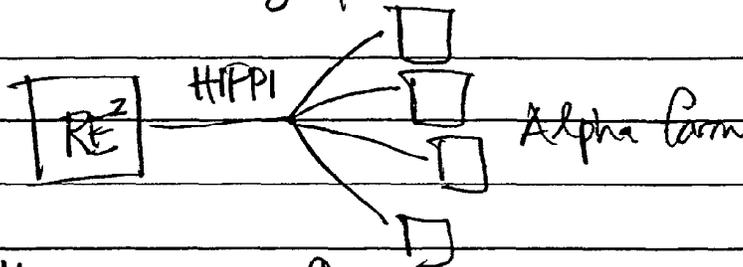$\Rightarrow$ Passage - SGML aut-source conv.

$\Rightarrow$ Heirarchical browse for MeSH terms ala Insight

NSF/Digital Library Proposal

$$X = 1.2M \# 0.58$$

Year 1

- Visualization hardware server
  - $\Rightarrow$ hardware graphics
  - $\Rightarrow$ massively parallel

- $\Rightarrow$ HW graphics for
  navigation
  browsing
- $\rightarrow$ MPP graphics for
  full resolution data sets
  arbitrary data sizes

15	Indy PC/SC workstations (@ #20k)	# 300k
1	Onyx RE²	# 160k
8	Client development SW (@ #4k)	32 k
4	Avalanche SGML (#9k)	36k
8	SQ A/E (@ 1k)	8k
8	SQ A/B (@ 2.5k)	20k

E 001497

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Year 2

16	Alpha Farm (@ 15k)	240k
16	HIPPI $5k	80k
1	HIPPI server $10k	20k
1	Network infrastructure	10k

Year 3

1	Onyx/Challenge rack	75k
3	RE² w/ 12RM	

CMDT

SA #2

a. building integrated semi-automatic front ends
to

Through the preparation of existing data sources
(e MEDLINE, PDB, RedSage, etc...)

Why is it what users need?
Why are we confident of success of
learning about CKM.

E 001499

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RedSage   1/7/93

MH. Zion

   * site visit
      – location needs to be confirmed
      – networking connectivity to Mt. Zion
         needs to be determined from HCD.
      – X terminal and HP LJ4 printer
      – identify technical content from G. Burrough
   * 1/31 begin installation
   * 2/21 up and ready

SFGH

   * site visit
      – networking via ITS
      – Ethernet connectivity to terminal server
      – 10BASE-T hub.
      – 3 or four port Ethernet fan out
        – need mini-hubs (order)

Lunch / late morning w/ Carol

PacBell mtg 1/12 2PM

MOD 1/27-29   NCSA 2/3-2/5

Meeting w/ Cravel 1/12/94

Carl E Burke, Western Region Manager
James H Wallace, President
David Bibo, Site Rep.

Jim Arnold 1/12/94

1. Why don't I make an executable to work
w/ either AT&T or UCSF Motif libraries.
⇒ ordering new version of Motif
JOA std specification

2. Text databases problems

3. Login window appears in upper-left corner
of window. JOA will add Xresources

4. Issues sorting JOA:

5. On-line registration → configuration
parameters

Apple Business Solutions Seminar 2/17/94 Cupertino, CA

Diane Brundage, VP, GM Higher Education

1. Brief Overview of Business and Tech Directions
2. Power Mac (Perf, Config & Pricing, Demonstration)
3. Q/A

Overview

76 Fortune 100, $680M R&D, $8B gross

PPC

601 today
603 low-power, fall '94   } over 2 years
604 2x601
620 900 MIPS

End of '94 ship more RISC than anyone else

Larry Wood, Sr. Consulting Engr.
John Dubois, Consulting Engineer

Introduction in March 14th - 3 products

605   PDM - 60 MHz PowerPC 601 one PDS pizza box
610   LAW - 66 MHz PPC 601 three NuBus, dual monitor
840   Cold Fusion - 80 MHz 601

E 001502

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PDM   16bit 14" 8bit 16'

LAW   "   1MB   16bit/16"

                   2MB   8bit/21"

CF

New HDI 45 (sound, video, AdB)

32K cache std.

256k cache optional on all. (std. on CF)

PDM 8/160   a 2k

LAW 8/250   3k

CF   8/250   4.5k

AV technology on PDS card

Logic board upgrades for 610, 800, 950

'040 PB Duo Available in Spring.

   PPC PDS slot upgrade < $700

DEC

* YP must be setup w/ the program ypsetup
* YP must be enabled w/ svcsetup

E 001504

Staff Mtg 9/28/92

- O. Gunther resigns
- Friday, 10/9 @ 2-4 PM ~~Radde~~ REL
- Wednesday, ~~Nov~~ 9/30 7:30 AM REL
  9/30 8:30 AM Radiology
  9:30 AM Springer AFT
- Position description for Director, Academic Information
  Director, Center For Knowledge Mgt

* potential security issues
  - network connections
  - AppleTalk, Netware, NFS, AppleTalk/Share
  - password protection
  -

E 001505

EOLASTX-0000000077

NCSA / Digital Libraries   1/10/94 Noon

1. External application display w/ XMosaic
2. External application API
3. HTML + DTD extensions for API

Joe Hardin, Mike Polk (NCSA)
D. Martin, M. Doyle (UCSF)

Michael Polk

Q: Platform : X Mosaic, PC Mosaic, Mac Mosaic
   X : ToolTalk
Windows :
Macintosh : Apple Events

URLs, URC's   March, IETF @ Seattle

Jim Fullton (CNIDR)   mfolk@ncsa.vice.edu
Tim @ CERN
Kevin @ CNIDR

NCSA may have other funding soon for UR*

EOLASTX-0000000078

AUI to 10 base T mini hub
Annex Terminal Server
128.218.19.38

Vivian Hirsh e-mail account (Async terminal)

RedSage Mtg

* Update on SFGH visit
⇒ two week staff training @ SFGH (1/24-2/4)
⇒ Online 2/7

push back 2 weeks
Mt. Zion ————→   Contact - HISD
  (Installation 2/14 - 2/21   1/31 - 2/4
  (Training   2/21 - 2/28 21
             /4

Alerting ⇒ Compilation of "alerted" articles

Problems w/ RedSage to "help@library.ucsf.edu"

* BFS move U66 prior to 2/4
* RIM move / 3rd Floor move / CKM move
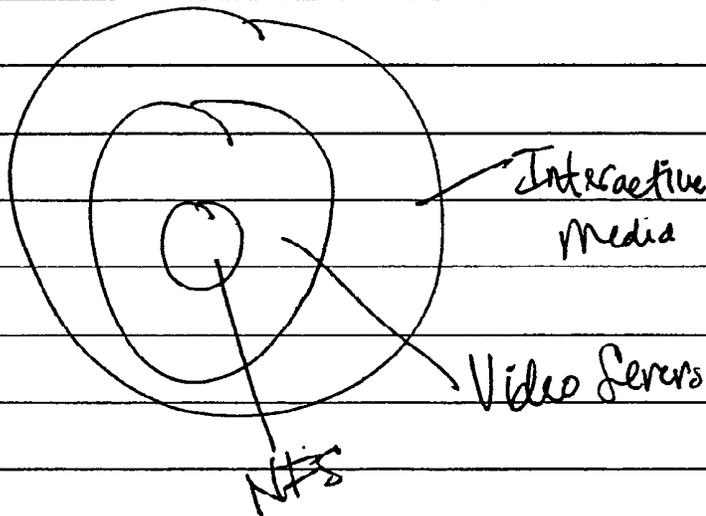 need custom cables from wall to computer
  LIN (4 cables)

SGI 1/14/93

Four Projects
- RedSage
- Digital Library
- Visible Embryo
- Visible Human.

MSD

Jim Barton, VP MSD
- Interactive Media Serves
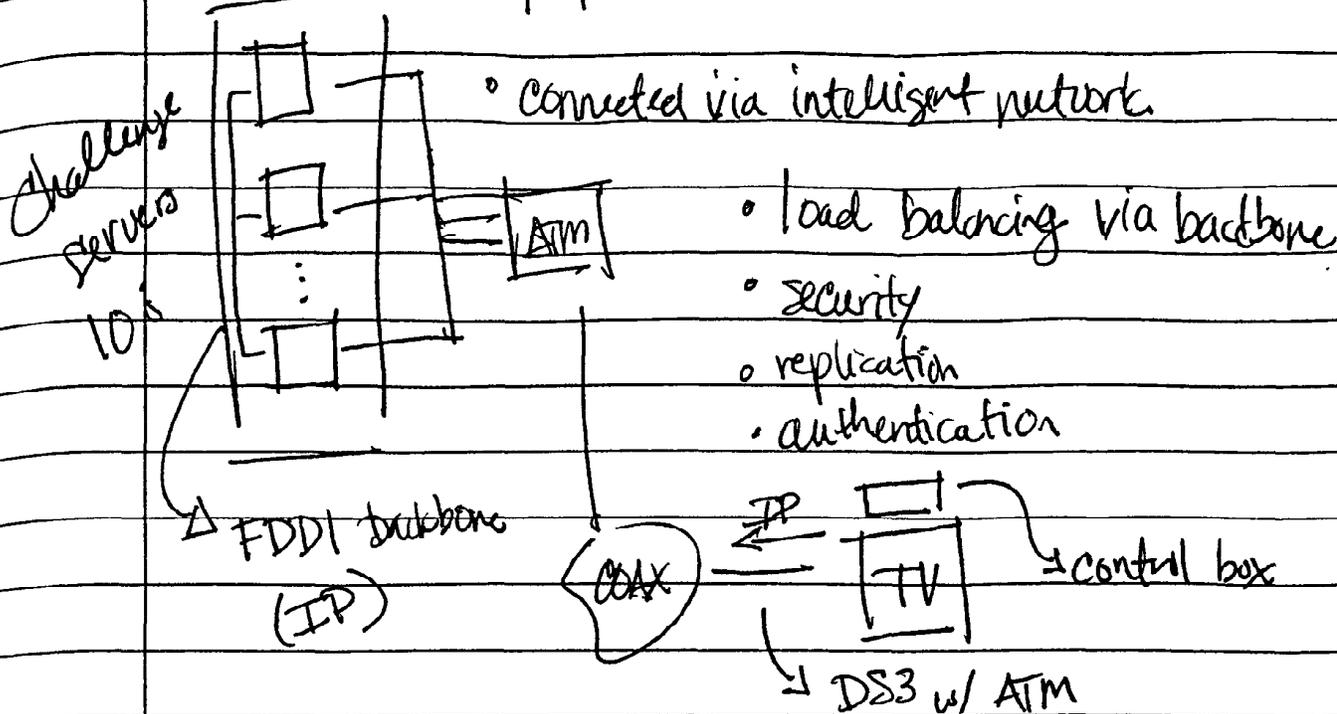- File serves
- Video serves
- Imaging
- Network
- Low-end serve

Interactive Media
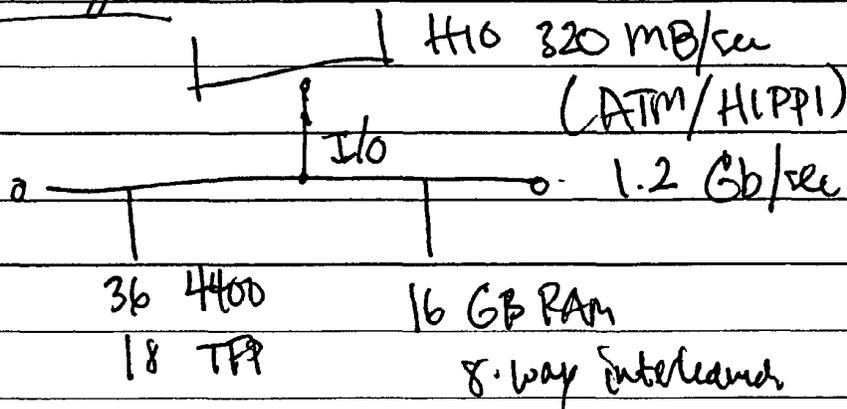
Video Servers

NFS

E 001508

SGI cont... (1/14/93)

Challenge
servers
10^k

° Connected via intelligent network.

° load balancing via backbone

° security

○ replication

· authentication

△ FDDI backbone
(IP)

COAX → IP

TV → control box

DS3 w/ ATM

Challenge

HIO 320 MB/sec
(ATM/HIPPI)

I/O

1.2 Gb/sec

36 4400
18 TFP

16 GB RAM
8-way interleaved

Christian (Switz.)

RedSage 1/18/94   BFS, PZS, MDD, JBW, PJW, DCM

1. Content replacement : okay via REL
2. Content tracking subcmte (PJW)
    a. continuation at DCM spreadsheet
    b. content tracking via OPAC (Z39.50)
    c. RM support for tracking content via Excel
        - weekly update to DCM re: new paper
    d. DCM excel spreadsheet weekly update
3. Text search problem re. Joan Borelli
    a DCM investigated, can't reproduce
4. Blank screens on RS access terminal need to
    have indicator at functionality.
5. RedSage handout (Kinko's / PIP)

MDD Mtg 1/18/94   MDD, BFS, DCM
1. ILC staffing issue (BFS, GLP)
2. Administrative printing mtg (BFS)
3. Disc jukebox installation..
4. TULIP X terminal in reference (BFS)
5. ILC access control for UCSF patrons (BFS)
6. Digital Library
    15 workstations } + maintenance $300K
    Onyx RE²   }
7. Multiple (8-16) Alpha w/ HIPPI between/to Onyx ↗ $600K total
8. Conservative estimate on Power Challenge farm ($350K) (two yrs)

E 001510

CONFIDENTIAL

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Digital Library Proposal

Onyx $135 $188,800   2x150MHz RE400, 2x64MB,
RE²   2GB, 16MB texture, RE², 4RM
RM $158 $223,800   rack. (sch. 3)
                    19,500   MCO (sch. 3)
           64MB   11,200

Onyx RE² w/ 4RM, 2x150MHz, 64 DRAM, 2GB SCSI,
    16MB Texture memory, (rack) $158,145
Additional 64MB DRAM $7,280.
Multi-channel output Option $12,675
                                 $178,160
Support (14,525/yr)   10,893.75
                                 188,993.75

                    RM5
2 Additional RE² (110,000)   71,500 / 143,000
2 Additional MCO (19,500/12,675)   25,350
9 RM5 ($50k) $32,500 $292,500
11 2x150MHz ($40k/$26k)   286,000
4   4x150MHz ($80k)   746,850
        208,600

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Sample Screens

Visible Embryo   Visible Human.

1. VIS w/ Embryo and VIS w/ head
2. PDB data page
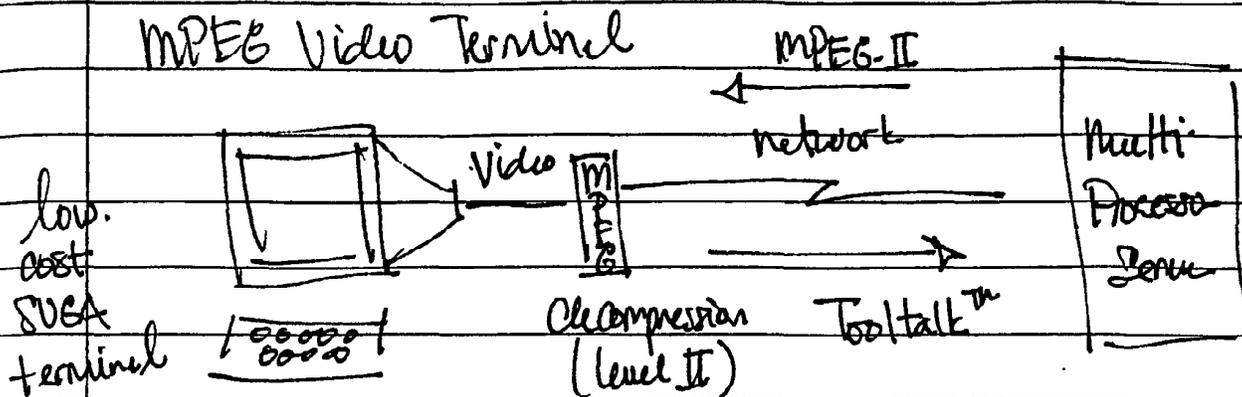3. RedSage via WWW
4. Bibliographic via WWW

1/23/94

C+CS

1. installation of 3rd floor X terminals
   a. DCM initial installation
   b. DCM move of StatRef macintosh and installation of 2nd X terminal
2. RedSage software installation
   a. limited access to appropriate designated staff
3. Minerva (690mp) administration
   a. electronic mail
   b. removal of NFS mounts to external machines
4. SFGH installation
   a. DCM/PES site examination
   b. DIM/BFS hardware installation
      i. wiring incorrect
      ii. Laser Printer malfunction

5. SFGH Ariel station
   a. changed internet # failure to inform
      Public Service / document delivery.
   b. broken Laser printer.

MPEG Video Terminal   MPEG-II

low.
cost
SVGA
terminal   Video   Decompression   Tooltalk™   network   Multi
                                     (level II)   Processor
                                                                                           Server

Mtg w/ MDD   1/24/94

* performance issues w/ X terminal @ SFGH to MDD
* RightPages modifications
   • System log (LOG-DAEMON) ✓
   • printing "helper" application ✓
* Info-medsage response
* RightPages alerting (Tom J.)
* access to source code on minerva.
* SMCC orders (SC2000, SparcClassics, disk)

E 001513

EOLASTX-0000000085

1/26/94

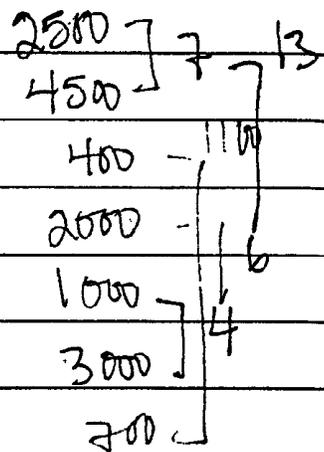Stuff To Buy

Hi8 8mm. video camera } computer-controlled $2500.00
Hi8 8mm video deck }
96 MB SGI memory (Indy + SGI^2) $4500.00
Galaxy for SGI, Sun, Mac, PC (4 x 4000.00 = 16,000)
Visual C++ $400.00
CodeCenter/ObjectCenter $2000.00
Purify $1000.00
64 MB Quadra 800 memory $3500.00
SGI CD/Rom $700.00
Indy Video $3000.00

Call Radius re: Duo accelerator
Global Village re: Duo GlobalGold

2500 ⎤ 7 ⎤ 13
4500 ⎦
400 — 11
2000 ⎤ 6
1000 ⎦ 4
3000 ⎤
700 ⎦

$ 14,100

E 001514

EOLASTX-0000000086

1/26/94 - 1/27/94

Author/Editor

* entity validation (external)
* SGML, DTD, Doc. Instance, Ex. Entities packaging deal.
* find/replace
    tag specification selection, not type "<" or ">"
* redo last cmd w/ ⌘Y
* more than 256 marks in document
* new button in Edit Marks enabled w/o name
* auto-track structure and context view to track as file
* search for element
* close window in dialog box to find class document
* window/document view/hide
* multiple statistics windows at once
* external entities for statistics
* balloon help
* check stop words checking wrong document
* insert surround required DTD elements.
⇒ automatic validation to return to RulesCheck On
* print (Macintosh) does not force to page
* Validate checking error report multiple
* notation checking for special characters, ü, é, >, < during validation
* select all character in line does not work

1/27/94

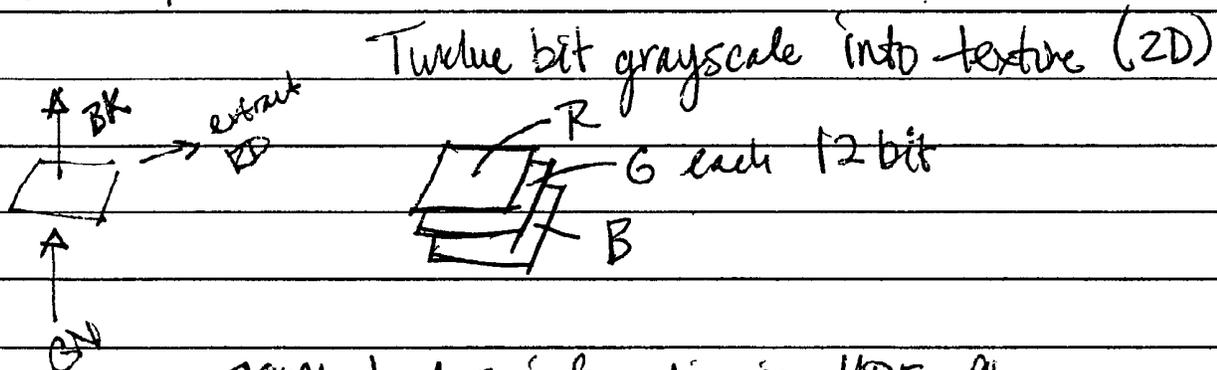## Color Volume Visualization / Image / Texture Overlay

Image Capture

Color scanner, 36 bits, 12g, 12r, 12b converted
and split into three channels w/ consistent base
color most appropriate to channel (e.g. green
light w/ extraction at red signal — w/ green
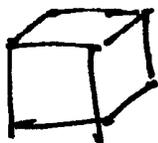cancelling red to black.)

R ⟶ 12 bit grayscale
G ⟶
B ⟶

Twelve bit grayscale into texture (2D)

each 12 bit

SGML header information in HDF files
w/ DTD for content w/in that describes the
format (ASN.1?) ; attempt to make it CORBA-
compliant.
  ↳subset!

E 001516

1/27/14   CYMK format (?)   HSV ?

12 x 3 x 8   12 x 3

12 x 24   4 x 3 x 3   4 x 2

12 x 12 x 2

144 x 2 = 288   36 bits   36   32   36

36 bytes   32 bits   5   5   4
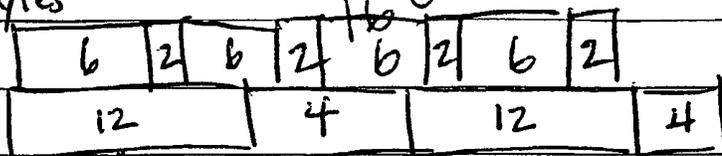
288 bits   4   30   160   24
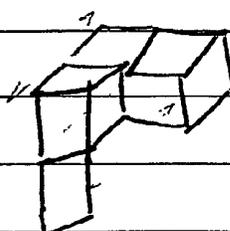
= 9 bytes   ___   150   12
                   128   180   ___
                                        144
1024/9 = 113.7   32

7 bytes

| 6 | 2 | 6 | 2 | 6 | 2 | 6 | 2 |
| 12 | 4 | 12 | 4 |

↑   ↑
12 bits   luminosity/
grayscale   transparency/
                 opacity   2 (½ CUBE)
                                2 x 2 x 2

2 x 2 x 2
= 8

8 bytes
x 32 bits
8 x 4 bytes
32 bytes

distribute image graphically w/ textures being created
from smallest cell size of voxels (power of 2 cube -
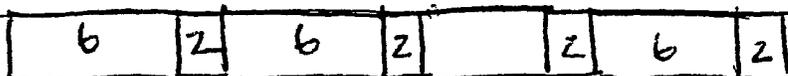minimum is ~~4x4x4~~ or 32 bytes - or ~~16³~~ cubes.
per kilobyte, ~~for a total~~ or 32768 ~~16384~~ cubes/megabyte
16³ = 4096 or 8 16 x 16 x 16 cube (16 CUBE) which
totals ~~16~~   8

E 001517

EOLASTX-0000000089

1/27/94   2·2·2 = 8 voxels   or   4 bytes

| 6 | 2 | 6 | 2 | | 2 | 6 | 2 |

struct {	2×2×2 cube. 4 bytes
	4^3 = ~~32~~ 32 bytes
~~xxx = xxxx~~	
unsigned v0:6;	64 bytes = 8 2^3 cube or $2^3 \cdot 2^3$ cube
unsigned 00:2;	512 byte = 8 $2^3 \times 2^3$ or $2^3 \cdot 2^3 \cdot 2^3$
unsigned v1:6;	

2^3 cube is 4 bytes, 8·2CUBE = 32 bytes or a
2CUBE of a 2CUBE (a 4CUBE) which is 64 voxels

Distribute calculation w/ specified size of
data block

E 001518

EOLASTX-0000000090

RedSage 2/1/94

* J.B. Martin
* Deans
* X-terminal
* Account creation
* staff responses.
* replys to information
* front-end support
* technical meeting.

RedSage PM

* initial contact for RedSage information requests.
  specified in info-resage announcement.
* refer requests to technical list for additional
  information.

LISTSERV support

E 001519

REL

1. timeout for users w/ note to implementation group
2. revised user listing w/ lists staff identified.
3. articles report: only active?, article id?

RedSage Tracking

Mtg w/ Joe Hartley and Carol Ouimette (SMCC)

1. WABI Application Development Environment for Solaris 2.x.

CMDT 2/13/94

1 Content Processing

A. Word for Windows / Word for DOS files from J. Ransom w/ mark-up for A/L current typesetting operation; typesetting commands made as consistent as possible.

B. Content received from J. Ransom processed into SGML document instance w/ minimal required DTD for all typesetting information

E 001520

EOLASTX-0000000092

C. Minimal DTD version is "validated" via iterative test, clean-up, test. Validated document is produced.

D. ~~Secondary~~ Validated SGML minimal DTD document instance enriched to conform to secondary DTD which requires additional structural mark-up. Result is validated SGML document instance w/ sufficient mark-up to paper and non-hyperlinked on-line version DTD.

E. Basic SGML document instance displayed via Mosaic World Wide Web client application w/ DTD support based on existant HTML+ DTD w/ sufficient additional ~~necessary~~ functionality defined and implemented to support Basic DTD. (the amount of work entailed is depend. on definition of Basic and HTML+ DTD's).

F. Additional content enrichment is performed on Basic DTD, resulting in an internally hyper-linked SGML document (ie. w/ chapter) w/ required structural identification of "external entry points" (ie, section headings, etc...). Results in Basic+ DTD conformant document instance.

terms

G. Basic+ DTD document instance displayed via Mosaic

H. Basic+ DTD document instance automatically linked via a table of contents and index, of terms. Basic+ version delivered via Mosaic.

MDD Mtg. 2/14/94

1. install new RightPages
   a. testing (ISS6)
      i. Purify / Quantify installed (C+CS)
      II. IXI Motif installed   (C+CS)
   b. installation (C+CS)

2. install optical jukebox
   a. installation/upgrade SC2000 (C+CS)
   b. installation/relocation DISC 350 (C+CS)
   c. installation of AMASS (ISS6/C+CS)
   d. testing (ISS6)

3. creation of ISS6 accounts on minerva

RedSage Mtg

1. automated selection of printer
   setenv PRINTER dependent on location DCM
2. printer installed at SFGH by 2/24   BPS

E 001522

HISD   2/24/93

Brown

Randy, Dwayne from HISD.

May 1, 1994 being able to put networking into
MTZ library.

Need memo and floor layout for Library @ MTZ.
to Randy Jones

VR

1. RPC data loading
2. start-up at remote VR servers.
    a. remote shell start-up when not responding

3. Volume rendering
    a. only VR on command
    b. display default values
    c. autor re-Volume rendering.
        1. no running server
            a. host is unavailable
            b. process is not responding. (wait, timeout)

E 001523

RedSage Mtg 3/11/94

70 total users
    16 Faculty
    10 Staff
    13 Student
    17 Fellows/Post-Doc
    2 Resident
    30 Library staff

Sessions
    709 total
    2,023 articles
    5,917 pages
    1,382 searches
    160 print jobs

Content Preparation

Major SGML DTD for header information

Produce subset at Major that requires all elements necessary to searching

SICI - Serial Identification C# I#

1. identify elements critical for searching. (end of april)
   a. header information
   b. citation information
2. schedule for implementation for SGML data

Browsing, Searching, Filing

1. Field attribute and relevance ranked searching

2. Organizational tools
   1. subscribed journals presented at issue level.
   2. alerted / searched results presented together
   3.

EOLASTX-0000000097

Mtg w/ Syntex ae Son

* information providers for Syntex internally ae
  some external publications.
* maintenance ot on-line information via TRC
  database (including full-text ae AEI article information)

Bugs
1. Notification at timeout (none provided)
2. Password locking.
3. Auto Raise reoccurring problem for dialog boxes.
4. Issue/Article alerting for NEJM
   a. search results
Δ exit clients after notification or
   respecify login/password.

N. Cal SGML Users Group Board Mtg 3/16/94
1. incorporation activity w/ S. Cal.
   * CA non profit corporation
   * two members ot board ot directors
   *
2. Future Meetings
   * Pinnacle DTD Co product data sheets,
   * June 13th or 20th
   * at National Semiconductor

E 001526

EOLASTX-0000000098

1. draft amonament
   * Lynne Price
2. communications infrastructure,
   Dan Lewis, Daniel Pitti
   PacBell   UC Berkely

Responces: membeship, meetings, communication, finance
   Greg Sherwood Shackelford, Martin, Pitti, Anan,
   Azevedo,   Azevedo lewis, Ruth Ann Ruth Ann
benefits
Azevedo,   Mtg in April : business plan, mailing
Lewis   ⇒ listserv @ WEB