CMU-ITC-89-094

A Visual Tour of Andrew

Snapshots of the Andrew system,
a campus-wide computing network,
a joint venture between IBM and
Carnegie Mellon University.

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Human Factors Group
Information Technology Center
Carnegie Mellon University
Pittsburgh, Pennsylvania
11.9.89

A Visual Tour of Andrew

. . . . . .

Notes on the following pages:

1. The opening screen for Andrew.

2. The default arrangement of windows and columns. The console window (upper left) indicates that I have 7 new pieces of mail. I invoke the **Messages** program by selecting *Read Mail* or *Read News* from the pop-up menus. I can also type **messages** in the typescript window, if I prefer.

3. **Messages:** default presentation of folders that I'm subscribed to, content titles of one selected folder, and the contents of one selected message. Icons in the middle panel indicate new mail and seen (saved) mail. Selection of a title or a folder is indicated with bold type.

4. **Messages:** I can delete a message by selecting it and using the menus.

5. **Messages:** the deleted message is indicated in the middle panel with a smaller point size and a "grey" mail icon. I now want to compose and mail a reply to the sender of a particular note, so I select *Reply to Sender* from the menus.

6. **Messages:** the Send Message window with the address information automatically filled in. With the reply completed, I select *Send/Post* from the menus. The program verifies addresses, then sends the message. The window's title bar and the message area below the window will indicate when a message has been posted.

7. **Messages:** because I had previously instructed it, the Send Message window automatically hides itself after posting the note. The Messages window then reformats itself to fill in the entire right-hand column. (If I had to hide the SendMessage window by hand, the Messages window would not reformat itself. It would remain in position, unchanged.) Here, I'm reviewing the contents of another folder, this one a bulletin board. As with mail, icons are used to indicate the difference between "new" and "seen" postings.

8. **Messages:** I can print out the contents of a particular posting by selecting it and using the menus.

9. The **Console** window now indicates that there is one document waiting to be printed. A new window has been created in the right column, this one called ez, which is the editor for text and multi-media documents.

10. **ez:** I can preview my document before sending it to the printer.

11. **ez:** this preview window shows me exactly how the document will look when printed. From there, I can print the document by using the menus.

12. The printed page from a laser printer.

13. Displaying a raster image is possible in one of the bulletin boards. Andrew allows the user to scan in an image and imbed it in a document or display it behind widows (see some of the next pages).

14-19. Sample screens collected on a walk through several public Andrew clusters. Most of the users represented here were Computer Science or Engineering students, those very familiar with the system and who knew how (and wanted) to customize their working environments. In general, students in other majors tended to keep the default Andrew settings and went about their work. Page 18 has the new Motif interface, running on X.

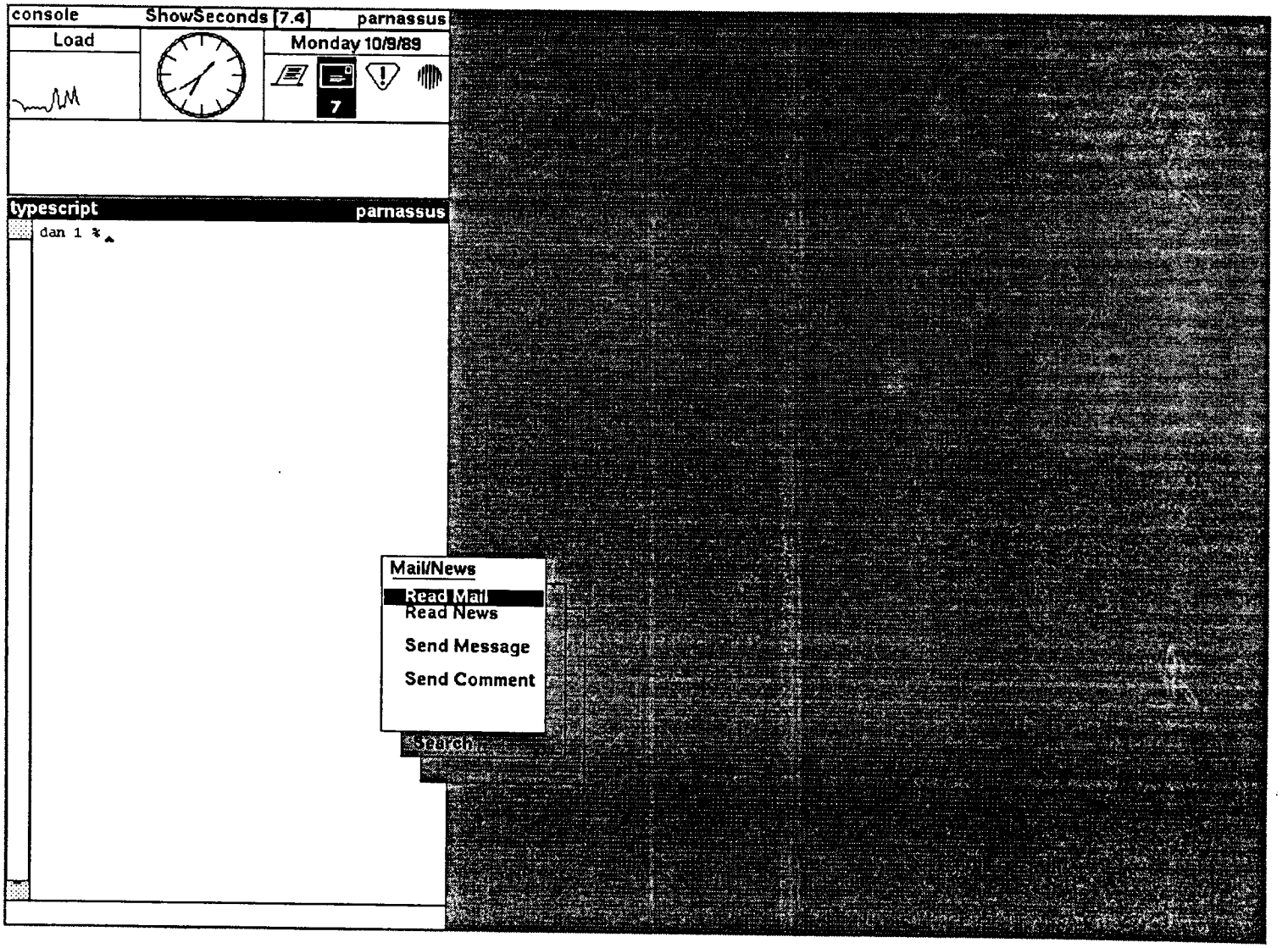
Welcome To

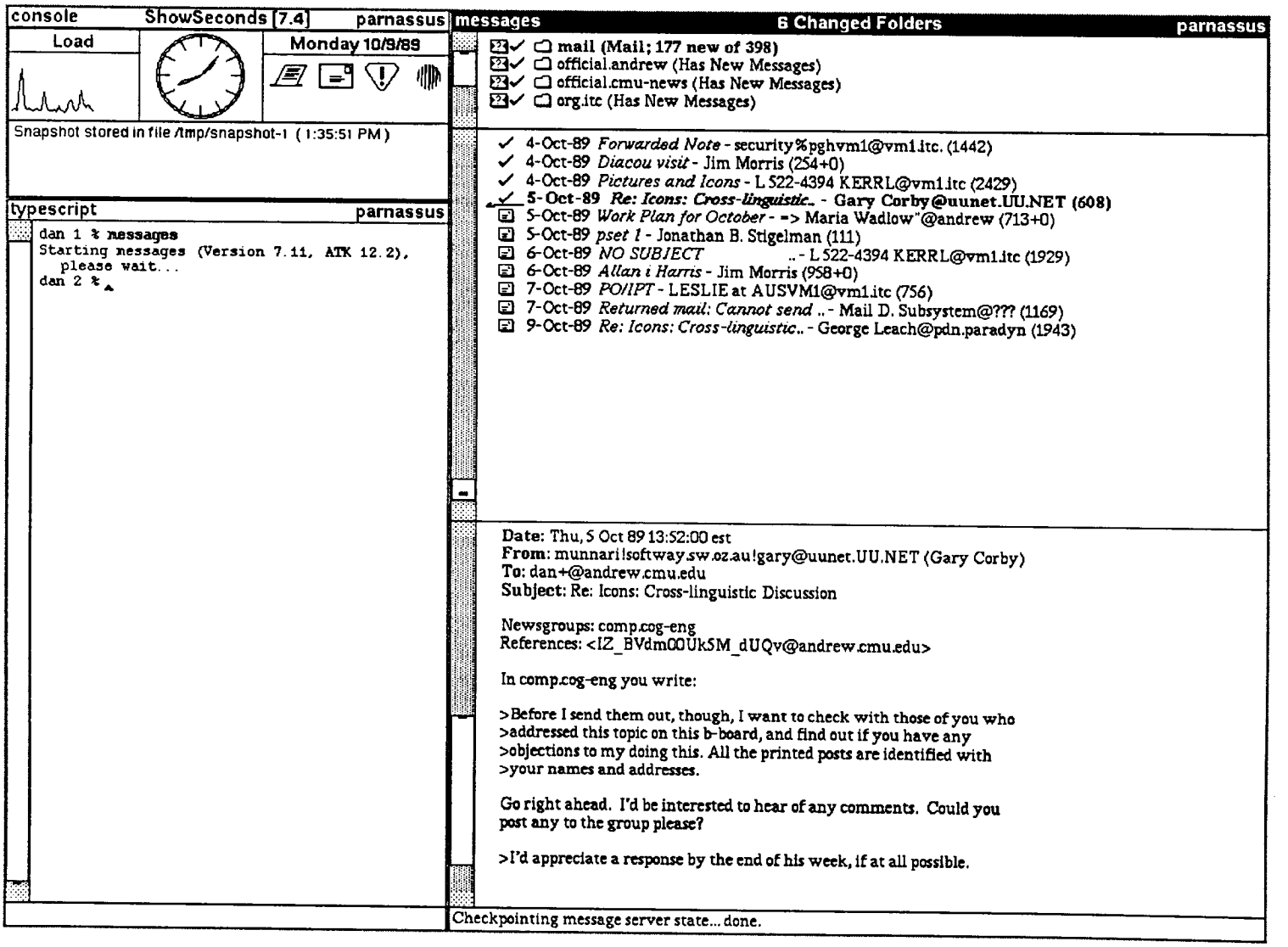
Andrew

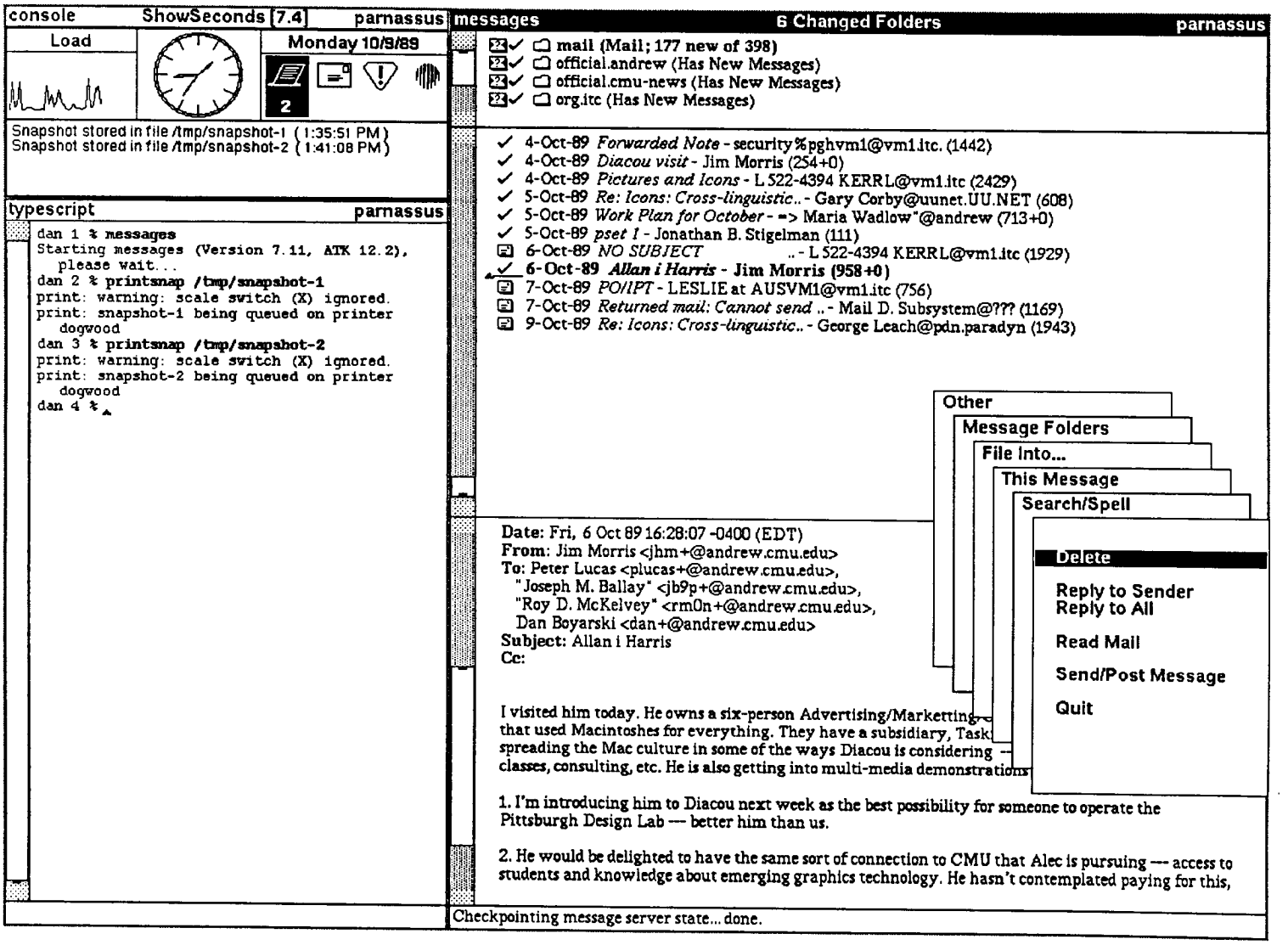
An experimental system produced by

the Information Technology Center,

a joint project of CMU and IBM.


console
ShowSeconds
7.4
parnassus
Load
Monday 10/9/89
7
typescript
parnassus
dan 1 %
Mail/News
Read Mail
Read News
Send Message
Send Comment
Search...


console
ShowSeconds [7.4]
parnassus
Load
Monday 10/9/89
Snapshot stored in file /tmp/snapshot-1 (1:35:51 PM)
typescript
parnassus
dan 1 % messages
Starting messages (Version 7.11, ATK 12.2),
please wait...
dan 2 %
messages
6 Changed Folders
parnassus
mail (Mail; 177 new of 398)
official.andrew (Has New Messages)
official.cmu-news (Has New Messages)
org.itc (Has New Messages)
4-Oct-89 Forwarded Note - security%pghvm1@vm1.itc. (1442)
4-Oct-89 Diacou visit - Jim Morris (254+0)
4-Oct-89 Pictures and Icons - L 522-4394 KERRL@vm1.itc (2429)
5-Oct-89 Re: Icons: Cross-linguistic.. - Gary Corby@uunet.UU.NET (608)
5-Oct-89 Work Plan for October - => Maria Wadlow"@andrew (713+0)
5-Oct-89 pset 1 - Jonathan B. Stigelman (111)
6-Oct-89 NO SUBJECT .. - L 522-4394 KERRL@vm1.itc (1929)
6-Oct-89 Allan i Harris - Jim Morris (958+0)
7-Oct-89 PO/IPT - LESLIE at AUSVM1@vm1.itc (756)
7-Oct-89 Returned mail: Cannot send .. - Mail D. Subsystem@??? (1169)
9-Oct-89 Re: Icons: Cross-linguistic.. - George Leach@pdn.paradyn (1943)
Date: Thu, 5 Oct 89 13:52:00 est
From: munnari!softway.sw.oz.au!gary@uunet.UU.NET (Gary Corby)
To: dan+@andrew.cmu.edu
Subject: Re: Icons: Cross-linguistic Discussion
Newsgroups: comp.cog-eng
References: <IZ_BVdm00Uk5M_dUQv@andrew.cmu.edu>
In comp.cog-eng you write:
>Before I send them out, though, I want to check with those of you who
>addressed this topic on this b-board, and find out if you have any
>objections to my doing this. All the printed posts are identified with
>your names and addresses.
Go right ahead. I'd be interested to hear of any comments. Could you
post any to the group please?
>I'd appreciate a response by the end of his week, if at all possible.
Checkpointing message server state... done.


console
ShowSeconds 7.4
parnassus
Load
Monday 10/9/89
2
Snapshot stored in file /tmp/snapshot-1 (1:35:51 PM)
Snapshot stored in file /tmp/snapshot-2 (1:41:08 PM)
typescript
parnassus
dan 1 % messages
Starting messages (Version 7.11, ATK 12.2),
please wait...
dan 2 % printsnap /tmp/snapshot-1
print: warning: scale switch (X) ignored.
print: snapshot-1 being queued on printer
dogwood
dan 3 % printsnap /tmp/snapshot-2
print: warning: scale switch (X) ignored.
print: snapshot-2 being queued on printer
dogwood
dan 4 %
messages
6 Changed Folders
parnassus
mail (Mail; 177 new of 398)
official.andrew (Has New Messages)
official.cmu-news (Has New Messages)
org.itc (Has New Messages)
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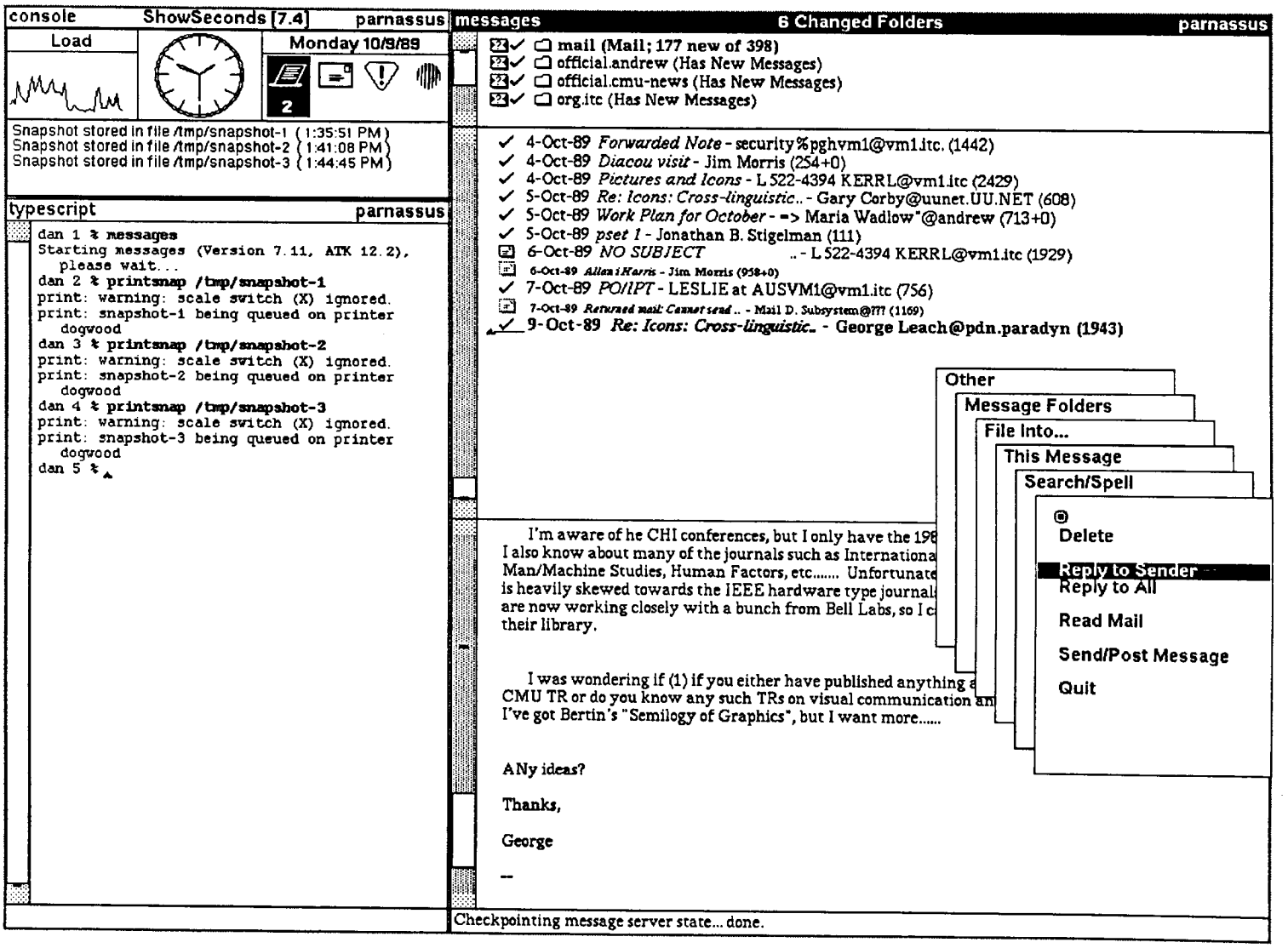
5-Oct-89 Work Plan for October - => Maria Wadlow"@andrew (713+0)
5-Oct-89 pset 1 - Jonathan B. Stigelman (111)
6-Oct-89 NO SUBJECT .. - L 522-4394 KERRL@vm1.itc (1929)
6-Oct-89 Allan i Harris - Jim Morris (958+0)
7-Oct-89 PO/IPT - LESLIE at AUSVM1@vm1.itc (756)
7-Oct-89 Returned mail: Cannot send .. - Mail D. Subsystem@??? (1169)
9-Oct-89 Re: Icons: Cross-linguistic.. - George Leach@pdn.paradyn (1943)
Other
Message Folders
File Into...
This Message
Search/Spell
Delete
Reply to Sender
Reply to All
Read Mail
Send/Post Message
Quit
Date: Fri, 6 Oct 89 16:28:07 -0400 (EDT)
From: Jim Morris <jhm+@andrew.cmu.edu>
To: Peter Lucas <plucas+@andrew.cmu.edu>,
"Joseph M. Ballay" <jb9p+@andrew.cmu.edu>,
"Roy D. McKelvey" <rm0n+@andrew.cmu.edu>,
Dan Boyarski <dan+@andrew.cmu.edu>
Subject: Allan i Harris
Cc:
I visited him today. He owns a six-person Advertising/Marketing
that used Macintoshes for everything. They have a subsidiary, Task
spreading the Mac culture in some of the ways Diacou is considering
classes, consulting, etc. He is also getting into multi-media demonstrations
1. I'm introducing him to Diacou next week as the best possibility for someone to operate the Pittsburgh Design Lab — better him than us.
2. He would be delighted to have the same sort of connection to CMU that Alec is pursuing — access to students and knowledge about emerging graphics technology. He hasn't contemplated paying for this,
Checkpointing message server state... done.


console
ShowSeconds 7.4
parnassus
Load
Monday 10/9/89
2
Snapshot stored in file /tmp/snapshot-1 (1:35:51 PM)
Snapshot stored in file /tmp/snapshot-2 (1:41:08 PM)
Snapshot stored in file /tmp/snapshot-3 (1:44:45 PM)
typescript
parnassus
dan 1 % messages
Starting messages (Version 7.11, ATK 12.2), please wait...
dan 2 % printsnap /tmp/snapshot-1
print: warning: scale switch (X) ignored.
print: snapshot-1 being queued on printer dogwood
dan 3 % printsnap /tmp/snapshot-2
print: warning: scale switch (X) ignored.
print: snapshot-2 being queued on printer dogwood
dan 4 % printsnap /tmp/snapshot-3
print: warning: scale switch (X) ignored.
print: snapshot-3 being queued on printer dogwood
dan 5 %
messages
6 Changed Folders
parnassus
mail (Mail; 177 new of 398)
official.andrew (Has New Messages)
official.cmu-news (Has New Messages)
org.itc (Has New Messages)
4-Oct-89 Forwarded Note - security%pghvm1@vm1.itc. (1442)
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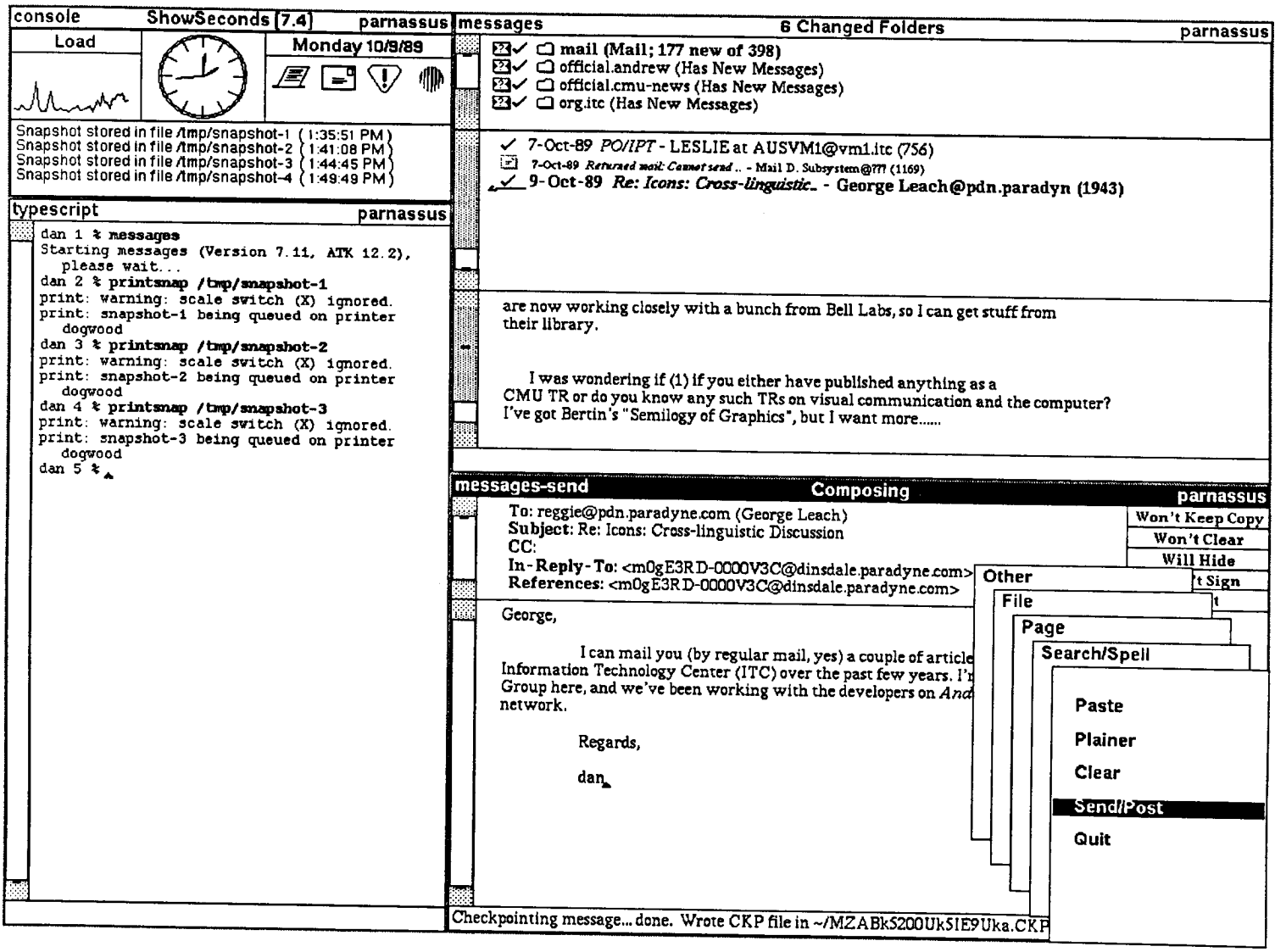
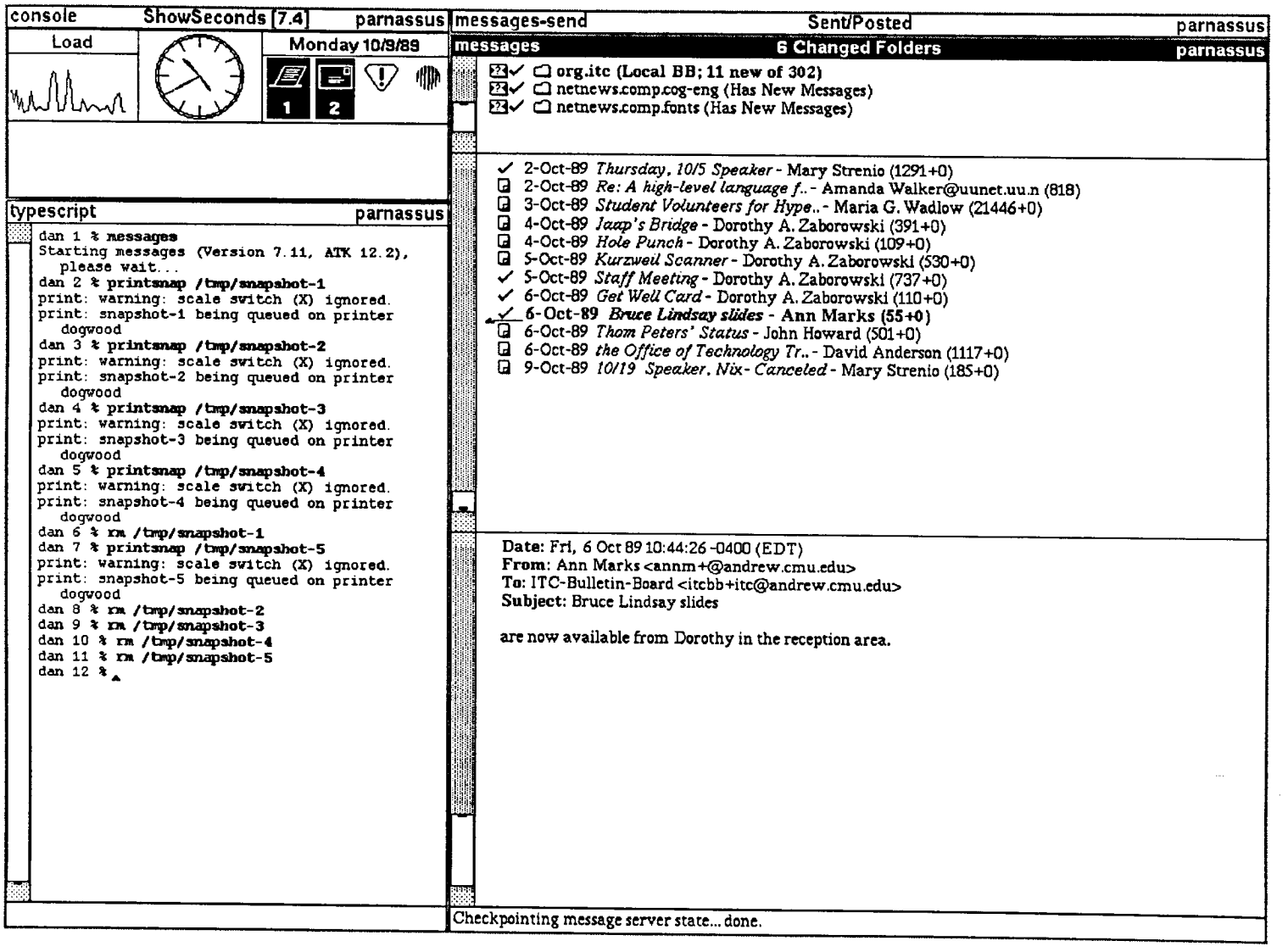
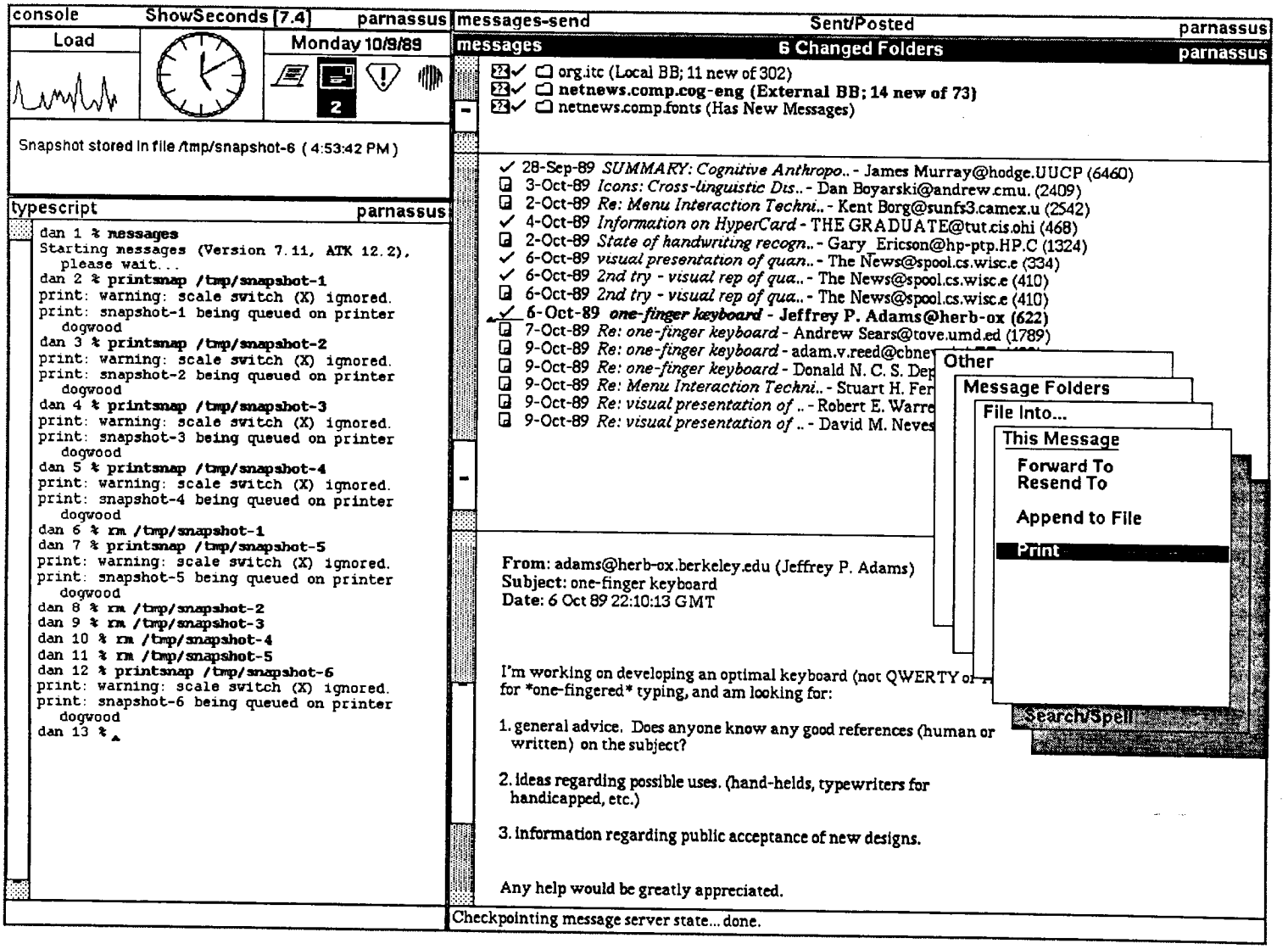
5-Oct-89 pset 1 - Jonathan B. Stigelman (111)
6-Oct-89 NO SUBJECT .. - L 522-4394 KERRL@vm1.itc (1929)
6-Oct-89 Allen i Harris - Jim Morris (958+0)
7-Oct-89 PO/IPT - LESLIE at AUSVM1@vm1.itc (756)
7-Oct-89 Returned mail: Cannot send .. - Mail D. Subsystem@??? (1169)
9-Oct-89 Re: Icons: Cross-linguistic.. - George Leach@pdn.paradyn (1943)
Other
Message Folders
File Into...
This Message
Search/Spell
Delete
Reply to Sender
Reply to All
Read Mail
Send/Post Message
Quit
I'm aware of he CHI conferences, but I only have the 198
I also know about many of the journals such as Internationa
Man/Machine Studies, Human Factors, etc..... Unfortunate
is heavily skewed towards the IEEE hardware type journal
are now working closely with a bunch from Bell Labs, so I c
their library.
I was wondering if (1) if you either have published anything a
CMU TR or do you know any such TRs on visual communication an
I've got Bertin's "Semilogy of Graphics", but I want more.....
ANy ideas?
Thanks,
George
--
Checkpointing message server state... done.

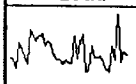

console
ShowSeconds [7.4]
parnassus
Load
Monday 10/9/89
Snapshot stored in file /tmp/snapshot-1 (1:35:51 PM)
Snapshot stored in file /tmp/snapshot-2 (1:41:08 PM)
Snapshot stored in file /tmp/snapshot-3 (1:44:45 PM)
Snapshot stored in file /tmp/snapshot-4 (1:49:49 PM)
typescript
parnassus
dan 1 % messages
Starting messages (Version 7.11, ATK 12.2), please wait...
dan 2 % printsnap /tmp/snapshot-1
print: warning: scale switch (X) ignored.
print: snapshot-1 being queued on printer dogwood
dan 3 % printsnap /tmp/snapshot-2
print: warning: scale switch (X) ignored.
print: snapshot-2 being queued on printer dogwood
dan 4 % printsnap /tmp/snapshot-3
print: warning: scale switch (X) ignored.
print: snapshot-3 being queued on printer dogwood
dan 5 %
messages
6 Changed Folders
parnassus
mail (Mail; 177 new of 398)
official.andrew (Has New Messages)
official.cmu-news (Has New Messages)
org.itc (Has New Messages)
7-Oct-89 PO/IPT - LESLIE at AUSVM1@vm1.itc (756)
7-Oct-89 Returned mail: Cannot send .. - Mail D. Subsystem@??? (1169)
9-Oct-89 Re: Icons: Cross-linguistic.. - George Leach@pdn.paradyn (1943)
are now working closely with a bunch from Bell Labs, so I can get stuff from their library.
I was wondering if (1) if you either have published anything as a CMU TR or do you know any such TRs on visual communication and the computer? I've got Bertin's "Semilogy of Graphics", but I want more.....
messages-send
Composing
parnassus
To: reggie@pdn.paradyne.com (George Leach)
Subject: Re: Icons: Cross-linguistic Discussion
CC:
In-Reply-To: <m0gE3RD-0000V3C@dinsdale.paradyne.com>
References: <m0gE3RD-0000V3C@dinsdale.paradyne.com>
Won't Keep Copy
Won't Clear
Will Hide
Other
File
Page
Search/Spell
Paste
Plainer
Clear
Send/Post
Quit
George,
I can mail you (by regular mail, yes) a couple of article
Information Technology Center (ITC) over the past few years. I'
Group here, and we've been working with the developers on And
network.
Regards,
dan
Checkpointing message... done. Wrote CKP file in ~/MZABkS200Uk5IE9Uka.CKP

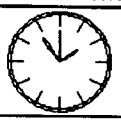

console
ShowSeconds 7.4
parnassus
Load
Monday 10/9/89
1
2
typescript
parnassus
dan 1 % messages
Starting messages (Version 7.11, ATK 12.2),
please wait...
dan 2 % printsnap /tmp/snapshot-1
print: warning: scale switch (X) ignored.
print: snapshot-1 being queued on printer
dogwood
dan 3 % printsnap /tmp/snapshot-2
print: warning: scale switch (X) ignored.
print: snapshot-2 being queued on printer
dogwood
dan 4 % printsnap /tmp/snapshot-3
print: warning: scale switch (X) ignored.
print: snapshot-3 being queued on printer
dogwood
dan 5 % printsnap /tmp/snapshot-4
print: warning: scale switch (X) ignored.
print: snapshot-4 being queued on printer
dogwood
dan 6 % rm /tmp/snapshot-1
dan 7 % printsnap /tmp/snapshot-5
print: warning: scale switch (X) ignored.
print: snapshot-5 being queued on printer
dogwood
dan 8 % rm /tmp/snapshot-2
dan 9 % rm /tmp/snapshot-3
dan 10 % rm /tmp/snapshot-4
dan 11 % rm /tmp/snapshot-5
dan 12 %
messages-send
Sent/Posted
parnassus
messages
6 Changed Folders
parnassus
org.itc (Local BB; 11 new of 302)
netnews.comp.cog-eng (Has New Messages)
netnews.comp.fonts (Has New Messages)
2-Oct-89 Thursday, 10/5 Speaker - Mary Strenio (1291+0)
2-Oct-89 Re: A high-level language f.. - Amanda Walker@uunet.uu.n (818)
3-Oct-89 Student Volunteers for Hype.. - Maria G. Wadlow (21446+0)
4-Oct-89 Jaap's Bridge - Dorothy A. Zaborowski (391+0)
4-Oct-89 Hole Punch - Dorothy A. Zaborowski (109+0)
5-Oct-89 Kurzweil Scanner - Dorothy A. Zaborowski (530+0)
5-Oct-89 Staff Meeting - Dorothy A. Zaborowski (737+0)
6-Oct-89 Get Well Card - Dorothy A. Zaborowski (110+0)
6-Oct-89 Bruce Lindsay slides - Ann Marks (55+0)
6-Oct-89 Thom Peters' Status - John Howard (501+0)
6-Oct-89 the Office of Technology Tr.. - David Anderson (1117+0)
9-Oct-89 10/19 Speaker, Nix - Canceled - Mary Strenio (185+0)
Date: Fri, 6 Oct 89 10:44:26 -0400 (EDT)
From: Ann Marks <annm+@andrew.cmu.edu>
To: ITC-Bulletin-Board <itcbb+itc@andrew.cmu.edu>
Subject: Bruce Lindsay slides
are now available from Dorothy in the reception area.
Checkpointing message server state... done.


console
ShowSeconds [7.4]
parnassus
Load
Monday 10/9/89
2
Snapshot stored in file /tmp/snapshot-6 (4:53:42 PM)
typescript
parnassus
dan 1 % messages
Starting messages (Version 7.11, ATK 12.2), please wait...
dan 2 % printsnap /tmp/snapshot-1
print: warning: scale switch (X) ignored.
print: snapshot-1 being queued on printer dogwood
dan 3 % printsnap /tmp/snapshot-2
print: warning: scale switch (X) ignored.
print: snapshot-2 being queued on printer dogwood
dan 4 % printsnap /tmp/snapshot-3
print: warning: scale switch (X) ignored.
print: snapshot-3 being queued on printer dogwood
dan 5 % printsnap /tmp/snapshot-4
print: warning: scale switch (X) ignored.
print: snapshot-4 being queued on printer dogwood
dan 6 % rm /tmp/snapshot-1
dan 7 % printsnap /tmp/snapshot-5
print: warning: scale switch (X) ignored.
print: snapshot-5 being queued on printer dogwood
dan 8 % rm /tmp/snapshot-2
dan 9 % rm /tmp/snapshot-3
dan 10 % rm /tmp/snapshot-4
dan 11 % rm /tmp/snapshot-5
dan 12 % printsnap /tmp/snapshot-6
print: warning: scale switch (X) ignored.
print: snapshot-6 being queued on printer dogwood
dan 13 %
messages-send
Sent/Posted
parnassus
messages
6 Changed Folders
parnassus
org.itc (Local BB; 11 new of 302)
netnews.comp.cog-eng (External BB; 14 new of 73)
netnews.comp.fonts (Has New Messages)
28-Sep-89 SUMMARY: Cognitive Anthropo.. - James Murray@hodge.UUCP (6460)
3-Oct-89 Icons: Cross-linguistic Dis.. - Dan Boyarski@andrew.cmu. (2409)
2-Oct-89 Re: Menu Interaction Techni.. - Kent Borg@sunfs3.camex.u (2542)
4-Oct-89 Information on HyperCard - THE GRADUATE@tut.cis.ohi (468)
2-Oct-89 State of handwriting recogn.. - Gary_Ericson@hp-ptp.HP.C (1324)
6-Oct-89 visual presentation of quan.. - The News@spool.cs.wisc.e (334)
6-Oct-89 2nd try - visual rep of qua.. - The News@spool.cs.wisc.e (410)
6-Oct-89 2nd try - visual rep of qua.. - The News@spool.cs.wisc.e (410)
6-Oct-89 one-finger keyboard - Jeffrey P. Adams@herb-ox (622)
7-Oct-89 Re: one-finger keyboard - Andrew Sears@tove.umd.ed (1789)
9-Oct-89 Re: one-finger keyboard - adam.v.reed@cbne
9-Oct-89 Re: one-finger keyboard - Donald N. C. S. Dep
9-Oct-89 Re: Menu Interaction Techni.. - Stuart H. Fer
9-Oct-89 Re: visual presentation of .. - Robert E. Warre
9-Oct-89 Re: visual presentation of .. - David M. Neves
Other
Message Folders
File Into...
This Message
Forward To
Resend To
Append to File
Print
Search/Spell
From: adams@herb-ox.berkeley.edu (Jeffrey P. Adams)
Subject: one-finger keyboard
Date: 6 Oct 89 22:10:13 GMT
I'm working on developing an optimal keyboard (not QWERTY o
for *one-fingered* typing, and am looking for:
1. general advice. Does anyone know any good references (human or written) on the subject?
2. ideas regarding possible uses. (hand-helds, typewriters for handicapped, etc.)
3. information regarding public acceptance of new designs.
Any help would be greatly appreciated.
Checkpointing message server state... done.

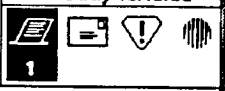
console ShowSeconds [7.4] parnassus

Load





Tuesday 10/10/89



typescript parnassus

```
dan 1 % messages
Starting messages (Version 7.11, ATK 12.2),
   please wait...
dan 2 % ez cover
Starting ez (Version 7.0, ATK 12.2), please
   wait...
dan 3 %
```

messages-send Sent/Posted parnassus

messages 5 Changed Folders parnassus

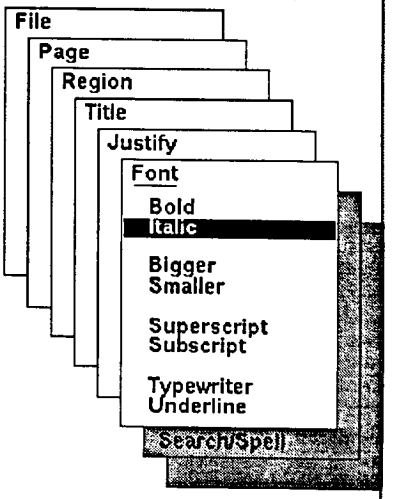
ez ~/cover parnassus

Cross-Cultural Aspects of Icon Design

Many of us, in the process of designing icons for computer interfaces, face the problem of having to design an icon that needs to be understood by other cultures.

I happened across this bulletin-board, at the suggestion of a colleague, and found the discussion on this topic to be relevant, facinating, and entertaining. I trust it will be the same for you. By no means is this a thorough discussion of the topic, but certainly food for thought.

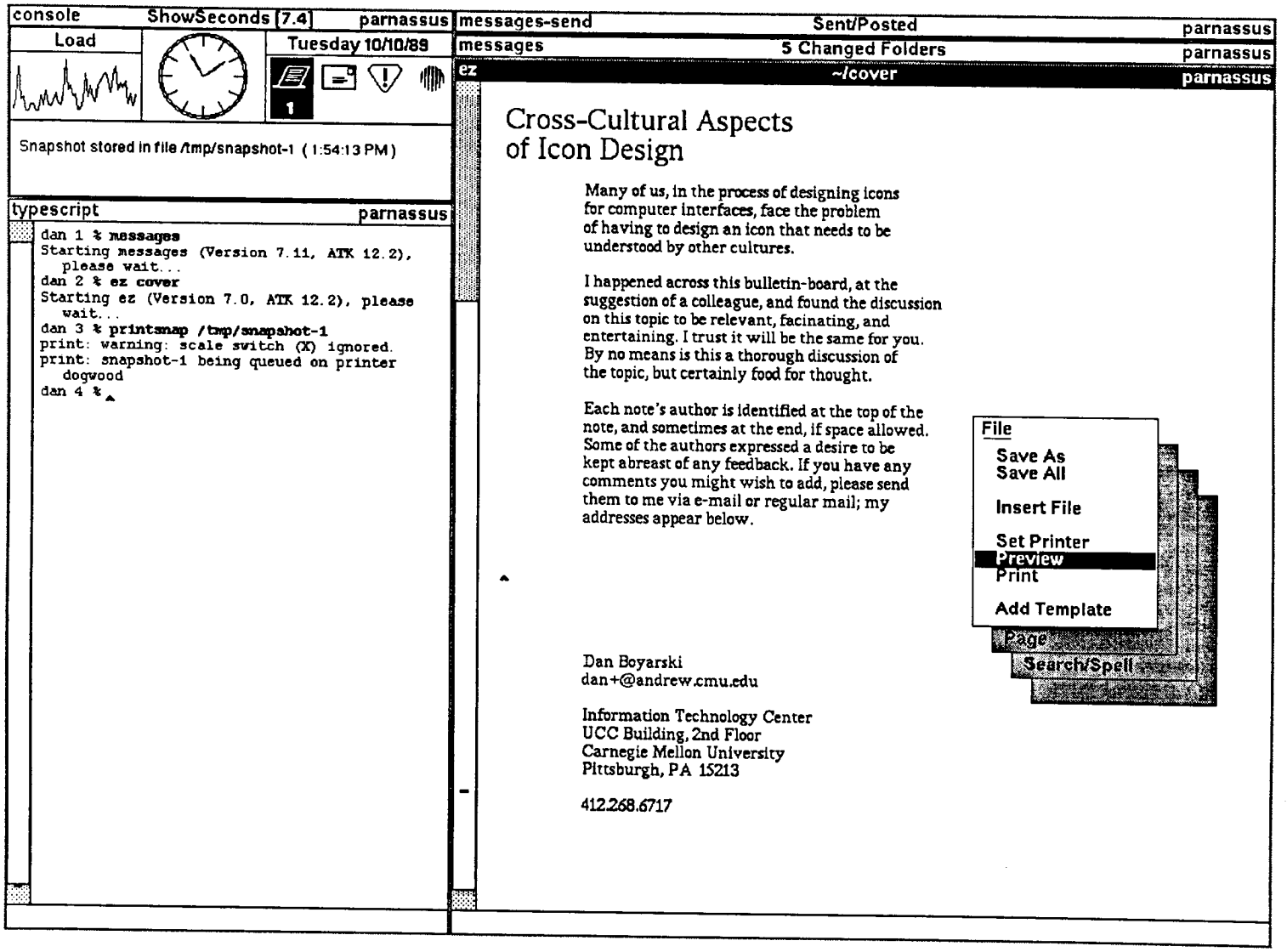
Each note's author is identified at the top of the note, and sometimes at the end, if space allowed. Some of the authors expressed a desire to be kept abreast of any feedback. If you have any comments you might wish to add, please send them to me via e-mail or regular mail; my addresses appear below.

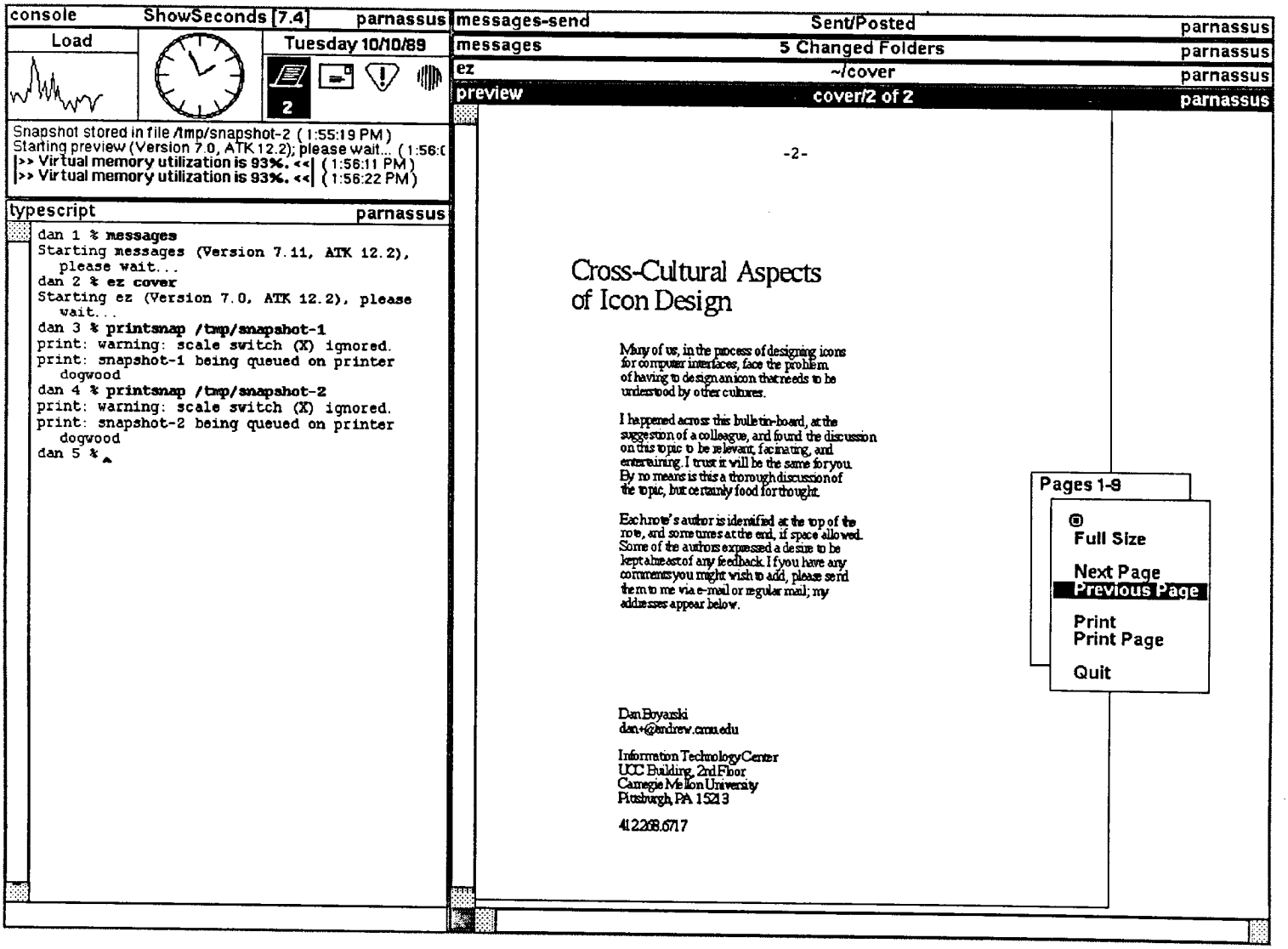


Dan Boyarski
dan+@andrew.cmu.edu

Information Technology Center
UCC Building, 2nd Floor
Carnegie Mellon University
Pittsburgh, PA 15213

412.268.6717


console
ShowSeconds [7.4]
parnassus
Load
Tuesday 10/10/89
1
Snapshot stored in file /tmp/snapshot-1 (1:54:13 PM)
typescript
parnassus
dan 1 % messages
Starting messages (Version 7.11, ATK 12.2), please wait...
dan 2 % ez cover
Starting ez (Version 7.0, ATK 12.2), please wait...
dan 3 % printsnap /tmp/snapshot-1
print: warning: scale switch (X) ignored.
print: snapshot-1 being queued on printer dogwood
dan 4 %
messages-send
Sent/Posted
parnassus
messages
5 Changed Folders
parnassus
ez
~/cover
parnassus
Cross-Cultural Aspects of Icon Design
Many of us, in the process of designing icons for computer interfaces, face the problem of having to design an icon that needs to be understood by other cultures.
I happened across this bulletin-board, at the suggestion of a colleague, and found the discussion on this topic to be relevant, facinating, and entertaining. I trust it will be the same for you. By no means is this a thorough discussion of the topic, but certainly food for thought.
Each note's author is identified at the top of the note, and sometimes at the end, if space allowed. Some of the authors expressed a desire to be kept abreast of any feedback. If you have any comments you might wish to add, please send them to me via e-mail or regular mail; my addresses appear below.
File
Save As
Save All
Insert File
Set Printer
Preview
Print
Add Template
Page
Search/Spell
Dan Boyarski
dan+@andrew.cmu.edu
Information Technology Center
UCC Building, 2nd Floor
Carnegie Mellon University
Pittsburgh, PA 15213
412.268.6717


console ShowSeconds [7.4] parnassus
Load
Tuesday 10/10/89
2
Snapshot stored in file /tmp/snapshot-2 (1:55:19 PM)
Starting preview (Version 7.0, ATK 12.2); please wait... (1:56:0
|>> Virtual memory utilization is 93%. <<| (1:56:11 PM)
|>> Virtual memory utilization is 93%. <<| (1:56:22 PM)
typescript parnassus
dan 1 % messages
Starting messages (Version 7.11, ATK 12.2), please wait...
dan 2 % ez cover
Starting ez (Version 7.0, ATK 12.2), please wait...
dan 3 % printsnap /tmp/snapshot-1
print: warning: scale switch (X) ignored.
print: snapshot-1 being queued on printer dogwood
dan 4 % printsnap /tmp/snapshot-2
print: warning: scale switch (X) ignored.
print: snapshot-2 being queued on printer dogwood
dan 5 %
messages-send Sent/Posted parnassus
messages 5 Changed Folders parnassus
ez ~/cover parnassus
preview cover/2 of 2 parnassus
-2-
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Pages 1-9
Full Size
Next Page
Previous Page
Print
Print Page
Quit

Cross-Cultural Aspects of Icon Design

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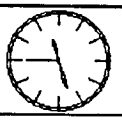
412.268.6717

console ShowSeconds [7.4] parnassus

Load



Friday 10/20/89

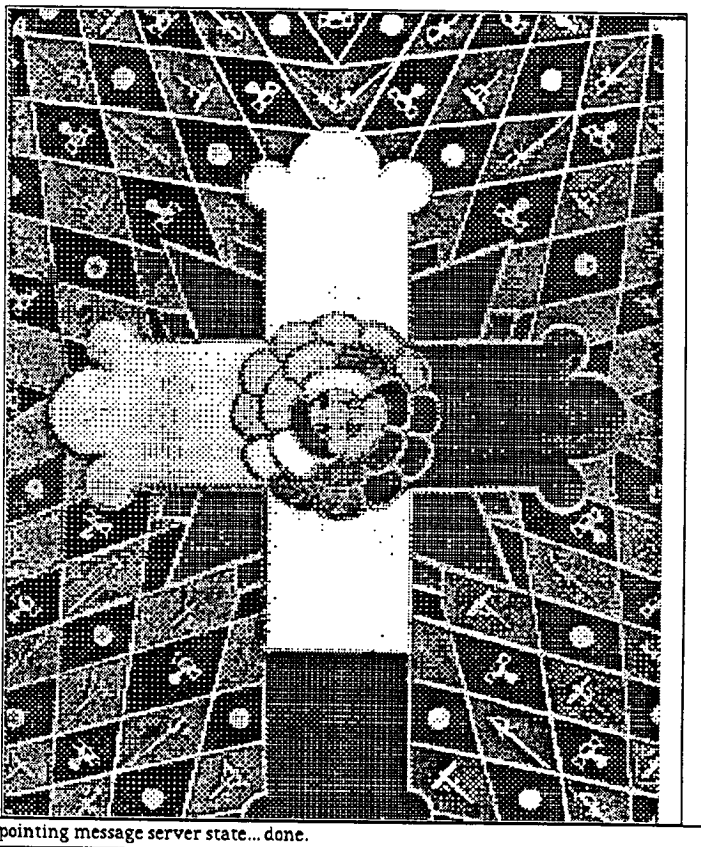
typescript parnassus

```
dan 1 % readmail
Starting messages (Version 7.12, ATK 12.4);
   please wait...
dan 2 %
```

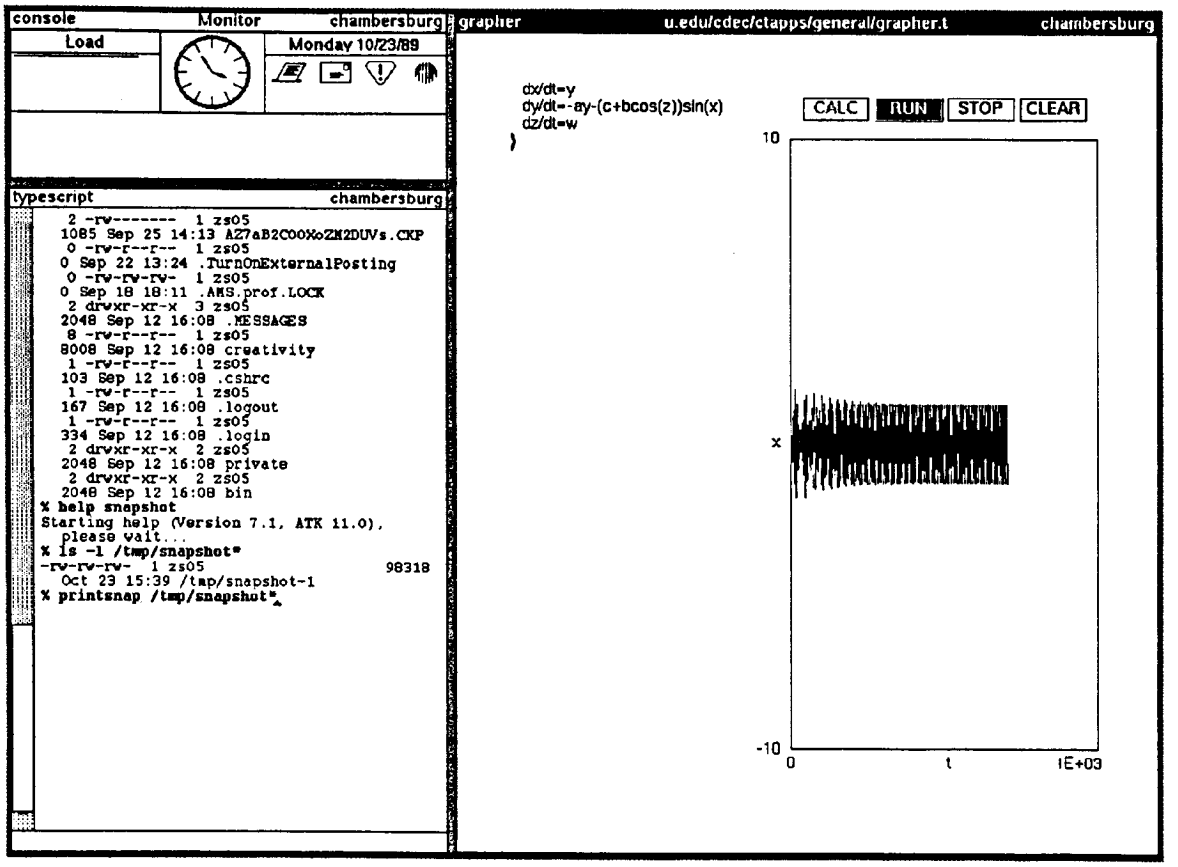
messages 1 Mail Folder parnassus

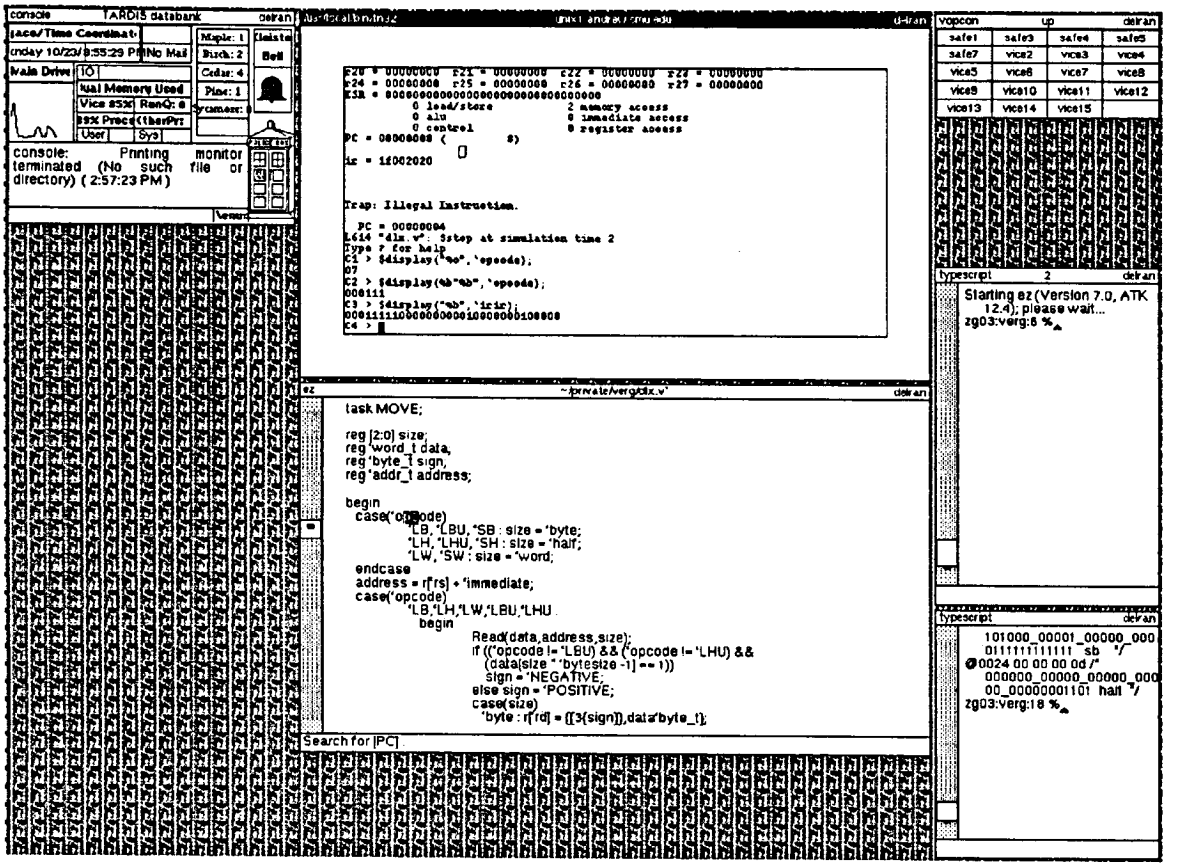
andrew.picture.tarot (Local BB; 5 new of 5)
andrew.picture.mohawk (Local BB; 4 new of 4)

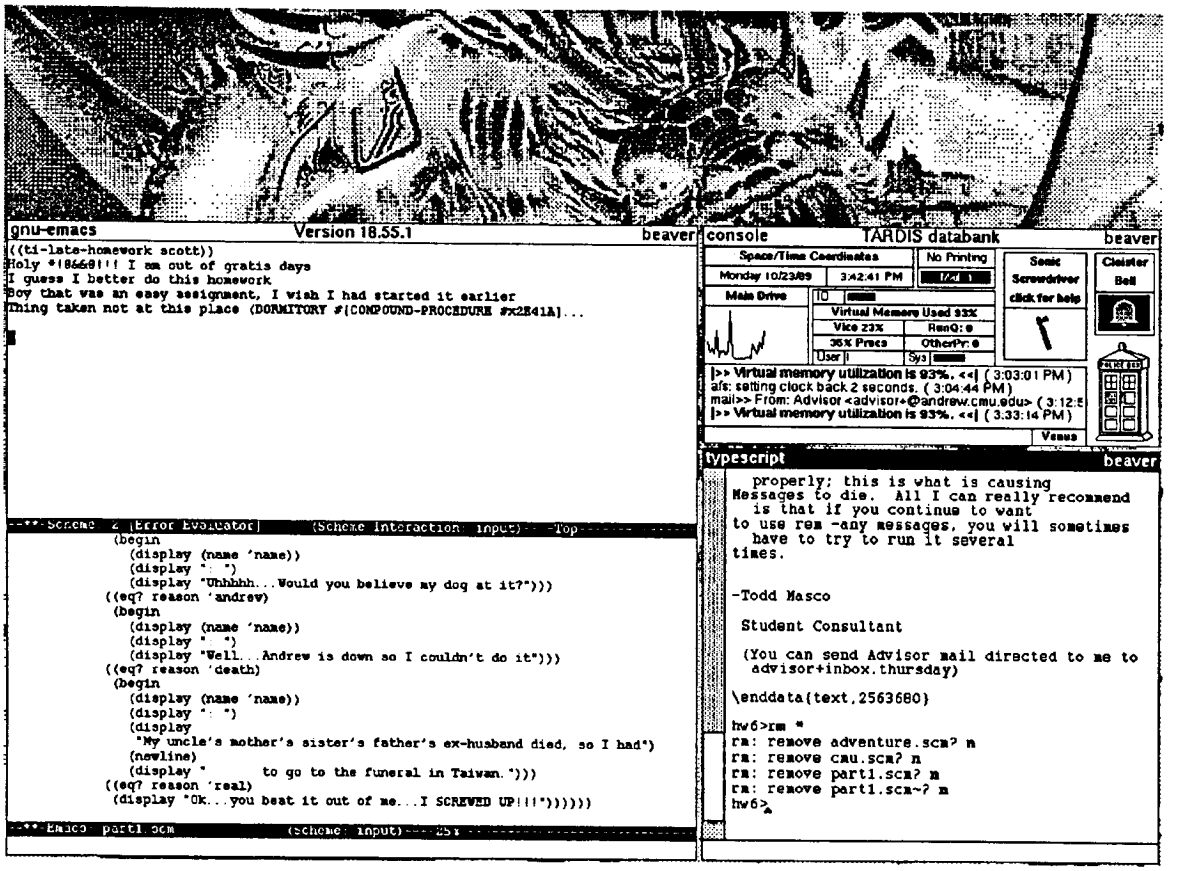
27-Oct-88 *Now there is a BB for Mohawk* - Kerr Doran Reno (462+0)
1-Jun-89 *Re: New folder: "magazines...* - Pierette Maniago (1318+0)
9-Sep-89 *Whaaat* - Joseph Paul Cepec (39+0)
29-Sep-89 *Re: Whaaat* - Kerr Doran Reno (361+0)

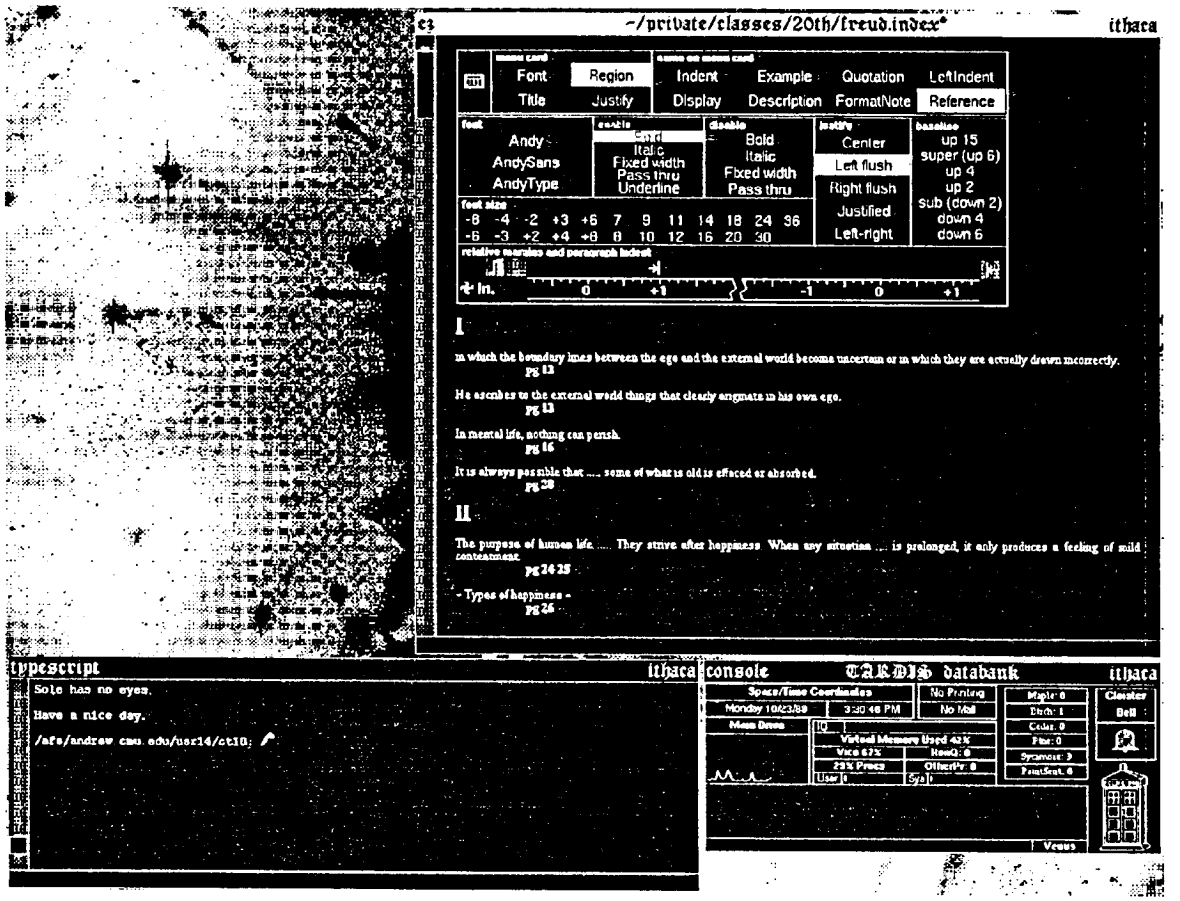


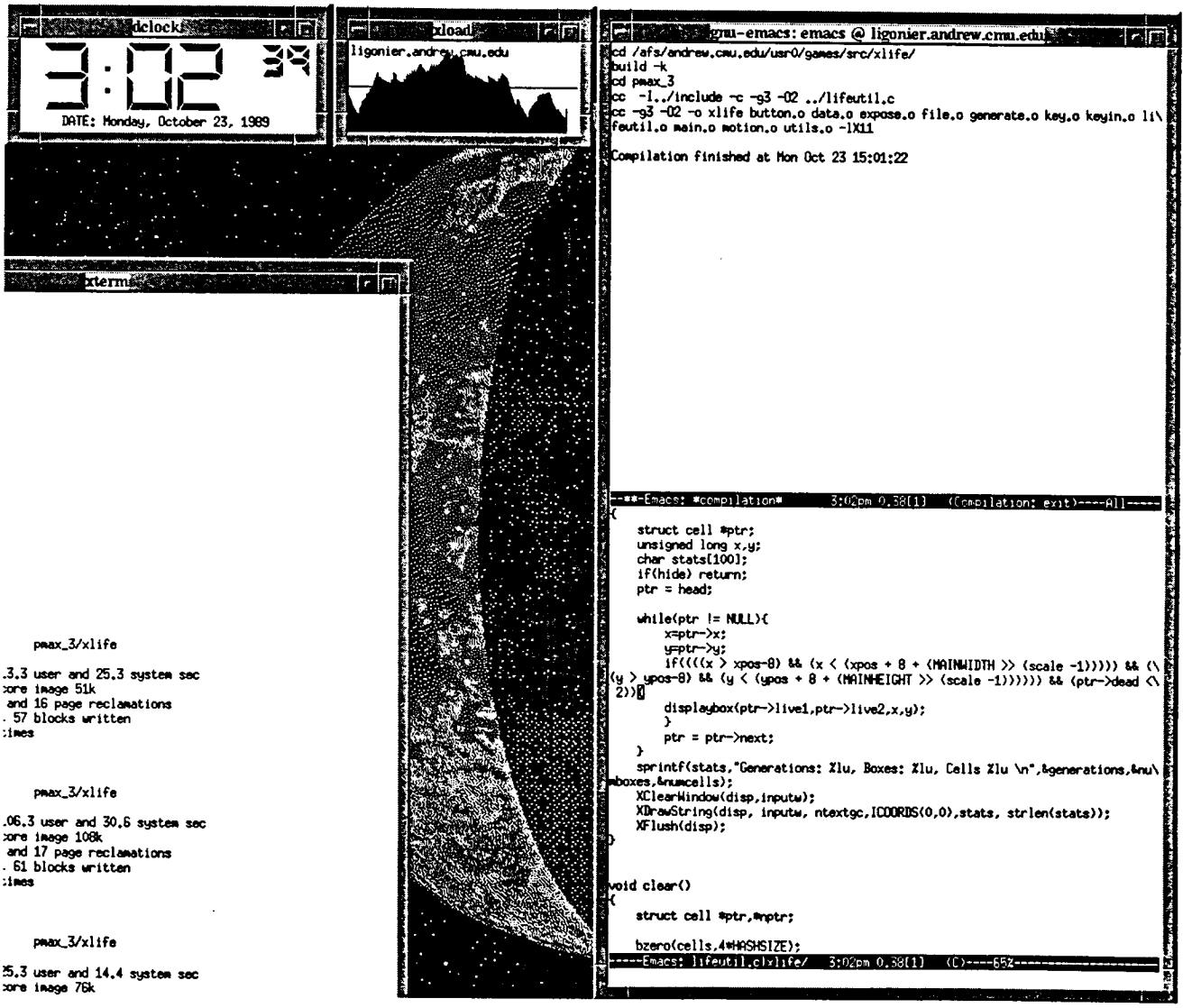
Checkpointing message server state... done.

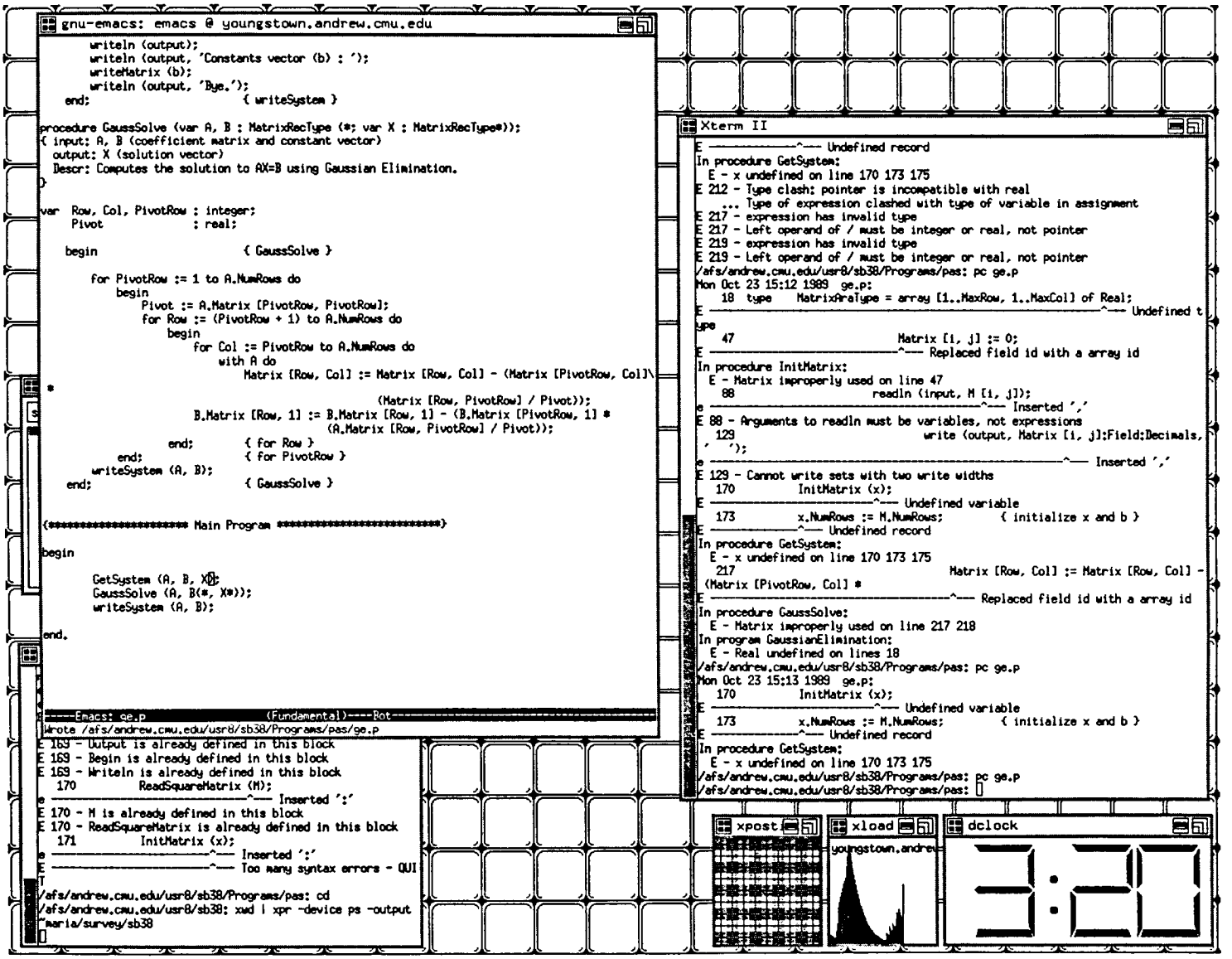

console
Monitor
chambersburg
Load
Monday 10/23/89
typescript
chambersburg
2 -rw------- 1 zs05
1085 Sep 25 14:13 AZ7aB2C00XoZM2DUVs.CKP
0 -rw-r--r-- 1 zs05
0 Sep 22 13:24 .TurnOnExternalPosting
0 -rw-rw-rw- 1 zs05
0 Sep 18 18:11 .AMS.prof.LOCK
2 drwxr-xr-x 3 zs05
2048 Sep 12 16:08 .MESSAGES
8 -rw-r--r-- 1 zs05
8008 Sep 12 16:08 creativity
1 -rw-r--r-- 1 zs05
103 Sep 12 16:08 .cshrc
1 -rw-r--r-- 1 zs05
167 Sep 12 16:08 .logout
1 -rw-r--r-- 1 zs05
334 Sep 12 16:08 .login
2 drwxr-xr-x 2 zs05
2048 Sep 12 16:08 private
2 drwxr-xr-x 2 zs05
2048 Sep 12 16:08 bin
% help snapshot
Starting help (Version 7.1, ATK 11.0),
please wait...
% ls -l /tmp/snapshot*
-rw-rw-rw- 1 zs05 98318
Oct 23 15:39 /tmp/snapshot-1
% printsnap /tmp/snapshot*
grapher
u.edu/cdec/ctapps/general/grapher.t
chambersburg
dx/dt=y
dy/dt=-ay-(c+bcos(z))sin(x)
dz/dt=w
}
CALC
RUN
STOP
CLEAR
10
x
-10
0
t
1E+03


console
TARDIS databank
delran
console: Printing monitor terminated (No such file or directory) (2:57:23 PM)
Trap: Illegal Instruction.
PC = 00000004
L614 "dlx.v": $stop at simulation time 2
Type ? for help
C1 > $display("%o", 'opcode);
07
C2 > $display("%b", 'opcode);
000111
C3 > $display("%b", 'irir);
C4 >
ez
~/private/verg/dlx.v
task MOVE;
reg [2:0] size;
reg 'word_t data;
reg 'byte_t sign;
reg 'addr_t address;
begin
case('opcode)
'LB, 'LBU, 'SB : size = 'byte;
'LH, 'LHU, 'SH : size = 'half;
'LW, 'SW : size = 'word;
endcase
address = r[rs] + 'immediate;
case('opcode)
'LB,'LH,'LW,'LBU,'LHU
begin
Read(data,address,size);
if (('opcode != 'LBU) && ('opcode != 'LHU) &&
(data[size * 'bytesize -1] == 1))
sign = 'NEGATIVE;
else sign = 'POSITIVE;
case(size)
'byte : r[rd] = {[3{sign}],data'byte_t};
Search for [PC]
vopcon
up
typescript
Starting ez (Version 7.0, ATK 12.4); please wait...
zg03:verg:6 %
typescript
101000_00001_00000_000
0111111111111 sb
0024 00 00 00 0d
000000_00000_00000_000
00_00000001101 half
zg03:verg:18 %


gnu-emacs
Version 18.55.1
beaver
((ti-late-homework scott))
Holy *!@&&@!!! I am out of gratis days
I guess I better do this homework
Boy that was an easy assignment, I wish I had started it earlier
Thing taken not at this place (DORMITORY #[COMPOUND-PROCEDURE #x2E41A]...
--**-Scheme 2 [Error Evaluator] (Scheme Interaction: input)--Top
(begin
(display (name 'name))
(display ": ")
(display "Uhhhhh...Would you believe my dog at it?")))
((eq? reason 'andrew)
(begin
(display (name 'name))
(display ": ")
(display "Well...Andrew is down so I couldn't do it")))
((eq? reason 'death)
(begin
(display (name 'name))
(display ": ")
(display
"My uncle's mother's sister's father's ex-husband died, so I had")
(newline)
(display " to go to the funeral in Taiwan.")))
((eq? reason 'real)
(display "Ok...you beat it out of me...I SCREWED UP!!!")))))
--**-Emacs: part1.scm (Scheme: input)----25%
console
TARDIS databank
beaver
Space/Time Coordinates
No Printing
Monday 10/23/89
3:42:41 PM
Main Drive
Virtual Memory Used 93%
Vice 23%
RunQ: 0
35% Procs
OtherPr: 0
User
Sys
Sonic Screwdriver click for help
Cloister Bell
|>> Virtual memory utilization is 93%. <<| (3:03:01 PM)
afs: setting clock back 2 seconds. (3:04:44 PM)
mail>> From: Advisor <advisor+@andrew.cmu.edu> (3:12:5
|>> Virtual memory utilization is 93%. <<| (3:33:14 PM)
Venus
typescript
beaver
properly; this is what is causing
Messages to die. All I can really recommend
is that if you continue to want
to use rem -any messages, you will sometimes
have to try to run it several
times.
-Todd Masco
Student Consultant
(You can send Advisor mail directed to me to
advisor+inbox.thursday)
\enddata{text,2563680}
hw6>rm *
rm: remove adventure.scm? n
rm: remove cmu.scm? n
rm: remove part1.scm? n
rm: remove part1.scm~? n
hw6>


~/private/classes/20th/freud.index*
ithaca
Font
Region
Indent
Example
Quotation
LeftIndent
Title
Justify
Display
Description
FormatNote
Reference
Andy
AndySans
AndyType
Bold
Italic
Fixed width
Pass thru
Underline
Center
Left flush
Right flush
Justified
Left-right
up 15
super (up 6)
up 4
up 2
sub (down 2)
down 4
down 6
-8 -4 -2 +3 +6 7 9 11 14 18 24 36
-6 -3 +2 +4 +8 8 10 12 16 20 30
I
in which the boundary lines between the ego and the external world become uncertain or in which they are actually drawn incorrectly.
pg 13
He ascribes to the external world things that clearly originate in his own ego.
pg 13
In mental life, nothing can perish.
pg 16
It is always possible that .... some of what is old is effaced or absorbed.
pg 20
II
The purpose of human life ..... They strive after happiness. When any situation ... is prolonged, it only produces a feeling of mild contentment.
pg 24 25
- Types of happiness -
pg 25
typescript
ithaca
Sole has no eyes.
Have a nice day.
/afs/andrew.cmu.edu/usr14/ctl0:
console
TARDIS databank
ithaca
Space/Time Coordinates
No Printing
No Mail
Monday 10/23/89
3:30:46 PM
Mem Devs
Virtual Memory Used 42%
Vice 67%
ReadQ: 0
29% Preds
OtherPr: 0
User 0
Sys 0
Maple: 0
Ditch: 1
Cedar: 0
Pine: 0
Sycamore: 3
PostScript: 0
Cluster
Bell
Venus


dclock
3:02
39
DATE: Monday, October 23, 1989
xload
ligonier.andrew.cmu.edu
gnu-emacs: emacs @ ligonier.andrew.cmu.edu
cd /afs/andrew.cmu.edu/usr0/games/src/xlife/
build -k
cd pmax_3
cc -I../include -c -g3 -O2 ../lifeutil.c
cc -g3 -O2 -o xlife button.o data.o expose.o file.o generate.o key.o keyin.o li\
feutil.o main.o motion.o utils.o -lX11
Compilation finished at Mon Oct 23 15:01:22
--**-Emacs: *compilation* 3:02pm 0.38[1] (Compilation: exit)----All----
{
struct cell *ptr;
unsigned long x,y;
char stats[100];
if(hide) return;
ptr = head;
while(ptr != NULL){
x=ptr->x;
y=ptr->y;
if((((x > xpos-8) && (x < (xpos + 8 + (MAINWIDTH >> (scale -1))))) && (\
(y > ypos-8) && (y < (ypos + 8 + (MAINHEIGHT >> (scale -1)))))) && (ptr->dead <\
2))
displaybox(ptr->live1,ptr->live2,x,y);
}
ptr = ptr->next;
}
sprintf(stats,"Generations: %lu, Boxes: %lu, Cells %lu \n",&generations,&nu\
mboxes,&numcells);
XClearWindow(disp,inputw);
XDrawString(disp, inputw, ntextgc,ICOORDS(0,0),stats, strlen(stats));
XFlush(disp);
}
void clear()
{
struct cell *ptr,*nptr;
bzero(cells,4*HASHSIZE);
-----Emacs: lifeutil.c\!life/ 3:02pm 0.38[1] (C)----65%
xterm
pmax_3/xlife
.3.3 user and 25.3 system sec
core image 51k
and 16 page reclamations
. 57 blocks written
times
pmax_3/xlife
.06.3 user and 30.6 system sec
core image 108k
and 17 page reclamations
. 61 blocks written
times
pmax_3/xlife
35.3 user and 14.4 system sec
core image 76k


gnu-emacs: emacs @ youngstown.andrew.cmu.edu
writeln (output);
writeln (output, 'Constants vector (b) : ');
writeMatrix (b);
writeln (output, 'Bye.');
end; { writeSystem }
procedure GaussSolve (var A, B : MatrixRecType (*; var X : MatrixRecType*));
{ input: A, B (coefficient matrix and constant vector)
output: X (solution vector)
Descr: Computes the solution to AX=B using Gaussian Elimination.
}
var Row, Col, PivotRow : integer;
Pivot : real;
begin { GaussSolve }
for PivotRow := 1 to A.NumRows do
begin
Pivot := A.Matrix [PivotRow, PivotRow];
for Row := (PivotRow + 1) to A.NumRows do
begin
for Col := PivotRow to A.NumRows do
with A do
Matrix [Row, Col] := Matrix [Row, Col] - (Matrix [PivotRow, Col]\
*
(Matrix [Row, PivotRow] / Pivot));
B.Matrix [Row, 1] := B.Matrix [Row, 1] - (B.Matrix [PivotRow, 1] *
(A.Matrix [Row, PivotRow] / Pivot));
end; { for Row }
end; { for PivotRow }
writeSystem (A, B);
end; { GaussSolve }
{********** Main Program **********}
begin
GetSystem (A, B, X);
GaussSolve (A, B(*, X*));
writeSystem (A, B);
end.
---Emacs: ge.p (Fundamental)---Bot---
Wrote /afs/andrew.cmu.edu/usr8/sb38/Programs/pas/ge.p
E 169 - Output is already defined in this block
E 169 - Begin is already defined in this block
E 169 - Writeln is already defined in this block
170 ReadSquareMatrix (M);
e ^--- Inserted ':'
E 170 - M is already defined in this block
E 170 - ReadSquareMatrix is already defined in this block
171 InitMatrix (x);
e ^--- Inserted ':'
E ^--- Too many syntax errors - QUI
T
/afs/andrew.cmu.edu/usr8/sb38/Programs/pas: cd
/afs/andrew.cmu.edu/usr8/sb38: xwd | xpr -device ps -output
~maria/survey/sb38
Xterm II
E ^--- Undefined record
In procedure GetSystem:
E - x undefined on line 170 173 175
E 212 - Type clash: pointer is incompatible with real
... Type of expression clashed with type of variable in assignment
E 217 - expression has invalid type
E 217 - Left operand of / must be integer or real, not pointer
E 219 - expression has invalid type
E 219 - Left operand of / must be integer or real, not pointer
/afs/andrew.cmu.edu/usr8/sb38/Programs/pas: pc ge.p
Mon Oct 23 15:12 1989 ge.p:
18 type MatrixArrType = array [1..MaxRow, 1..MaxCol] of Real;
E ^--- Undefined t
ype
47 Matrix [i, j] := 0;
E ^--- Replaced field id with a array id
In procedure InitMatrix:
E - Matrix improperly used on line 47
88 readln (input, M [i, j]);
e ^--- Inserted ','
E 88 - Arguments to readln must be variables, not expressions
129 write (output, Matrix [i, j]:Field:Decimals,
' ');
e ^--- Inserted ','
E 129 - Cannot write sets with two write widths
170 InitMatrix (x);
E ^--- Undefined variable
173 x.NumRows := M.NumRows; { initialize x and b }
E ^--- Undefined record
In procedure GetSystem:
E - x undefined on line 170 173 175
217 Matrix [Row, Col] := Matrix [Row, Col] -
(Matrix [PivotRow, Col] *
E ^--- Replaced field id with a array id
In procedure GaussSolve:
E - Matrix improperly used on line 217 218
In program GaussianElimination:
E - Real undefined on lines 18
/afs/andrew.cmu.edu/usr8/sb38/Programs/pas: pc ge.p
Mon Oct 23 15:13 1989 ge.p:
170 InitMatrix (x);
E ^--- Undefined variable
173 x.NumRows := M.NumRows; { initialize x and b }
E ^--- Undefined record
In procedure GetSystem:
E - x undefined on line 170 173 175
/afs/andrew.cmu.edu/usr8/sb38/Programs/pas: pc ge.p
/afs/andrew.cmu.edu/usr8/sb38/Programs/pas:
xpost
xload
youngstown.andrew
dclock
3:20