

Use of Central Computers, Questionnaire results

A.Berglund

November 11, 1986

Document Number: MIS - 75

DRAFT

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The online questionnaire resulted in a total of 285 responses connected on VM/CMS, Wylbur, VMS, and the Unix systems.

1. Basic Information

- System used: (note that many people use more than one system).

Wylbur	77%
VM/CMS	62%
VMS	39%
Unix	26%

- Terminal used:

In own office:	77%
In cluster:	32%
Waiting:	4%

- Breakdown of time spent on central computers for:

Administrative uses:	
	35%
Scientific uses:	56%

2. Electronic Mail

One area of interest was to see if electronic mail was used mostly for communication inside CERN (thus being a telephone replacement) or if it is more replacing telex and letters to outside laboratories. Results are:

On same system	44%
Inside CERN	53%
Outside CERN	41%

2.1 Deficiencies seen in the current system

2.1.1 VM users

- NO OUTSTANDING DEFICIENCIES NOTED, SINCE MOST MAIL IS DIRECTED TO DESTINATIONS CONNECTED TO CERN CENTRAL COMPUTERS.
- THERE SHOULD BE A WAY TO RELIABLY TELL WETHER A MESSAGE HAS ARRIVED
- NONE UP TO NOW
- MAIL SYSTEM IS QUITE SATISFACTORY AS IT IS NOW.
- AM PERFECTLY HAPPY

- IN GENERAL THE PRESENT SYSTEM WORKS FINE FOR ME. THE ONLY REAL PROBLEM IS THE LACK OF A DIRECTORY SERVICE.
- THE ARRANGEMENT OF PF KEYS OFFERED BY THE MAIL EXEC ON VM IS INCONVENIENT BECAUSE IT VIOLATES CONVENTIONS USED BY MOST OTHER FULL-SCREEN APPLICATION PROGRAMS ON THIS SYSTEM. E.G. WHY IS THE READ FUNCTION IN PF4 INSTEAD OF PF11 AS IT IS IN FILELIST, RDRLIST, THE ORIGINAL NOTE COMMAND ETC. ETC. I KNOW THAT I CAN ALTER THIS BY COOKING UP MY OWN MAILPROF XEDIT FILE IF I WISH BUT SINCE I STARTED USING THIS MAIL EXEC I HAVE NOT HAD TIME TO GO INTO THE DETAILS OF THAT. THIS MAIL EXEC ALSO USES UNCONVENTIONAL TERMINOLOGY FOR THINGS WHICH ARE MORE OR LESS STANDARD ON MOST OTHER VM SYSTEMS, E.G. IT TOOK ME A LONG TIME TO REALISE THAT TO GET THE EQUIVALENT FUNCTION OF THE TRADITIONAL RECEIVE COMMAND I HAD TO FIRST LOG THE FILE AND THEN DELETE IT. WHY IS DISCARD NOW CALLED DELETE ANYWAY. I KNOW THAT THIS MAIL EXEC DOES ALLOW COMPATIBILITY WITH MORE SYSTEMS OUTSIDE CERNVM AND THAT IS WHY I AM NOW TRYING TO USE IT BUT I DO NOT UNDERSTAND WHY IT WAS FOUND NECESSARY TO INCORPORATE ALL THESE IRRITATING NON-STANDARD FEATURES. ANOTHER THING IS THAT IT DOES NOT SEEM TO ALLOW ME TO USE MY USUAL GROUP OF NOTEBOOK FILES ON MY C DISK. IT ALWAYS STARTS A NEW NOTEBOOK ON MY A DISK.
- I GET BORED WITH OPTIONAL NAMES, THEREFORE USE NOTE. ONCE LOGGED, WOULD WHAT TEXT ? WHY MORE OF THIS
- I LIKE EAN BEST. HOWEVER, SOME MINOR IMPROVEMENTS WOULD BE NICE,
- I WOULD LIKE TO HAVE A L L MY INCOMING MAIL CENTRALISED TO ONE VAX. MARY DOWNIE SUGGESTS THIS IS UNSAFE SINCE MESSAGES CAN BE LOST SINCE WHEN TRANSFERRING FROM IBM TO VAX USING DECNET LOST MESSAGES ARE NOT NECESSARILY RECOGNISED AS SUCH. I WOULD VERY MUCH LIKE TO HAVE THIS OVERCOME, SO ALL INCOMING MAIL, BOTH ON VARIOUS VAXES, AND ON IBM COULD BE SAFELY FORWARDED TO A VAX OF MY CHOICE. THANKS
- NOTE DOES NOT ALLOW YOU TO GET TO ALL EARN/BITNET SITES. MAIL IS BETTER, BUT IT IS STILL FULL OF BUGS. TRY REPLYING TO A PROFS MAIL FOR EXAMPLE. ALSO, DELETING MAIL FROM UNREAD NOTEBOOK SEEMS TO NOT ALWAYS (OR NEVER?) WORK. WHEN SENDING MAIL TO A LIST, IT IS VERY UNPLEASANT TO GET ALL THE USERIDS UNDER ONE ANOTHER, INSTEAD OF NEXT TO ONE ANOTHER (AS NOTE DOES).
- FOR ME A MORE RELIABLE DECNET LINK BETWEEN THE 2 SITES AND TO THE US WOULD BE VERY USEFUL. BASICALLY I AM WORKING ON VXBSSY AND FROM THERE I DO EVERYTHING PREFERABLY WITH THE DEC FACILITIES OR THE ON THE VAX IMPLEMENTED SYSTEMS. THE ELECTRONIC MAILING FACILITY HAS SHOWN TO BE VERY USEFUL FOR ME. THANKS FOR THIS EXCELLENT SERVICE.
- ACKNOWLEDGE MISSING FOR PART OF
- GUIDE HOW TO GET TO OUTSIDE USERS, INCLUDING LIST OF NODES. POSSIBLY EVEN ACCESS TO LIST OF OUTSIDE USERS.
- I HAVE ALREADY A DOZEN OR SO SUGGESTIONS FOR IMPROVEMENTS TO MAIL AND USUALLY REPORT ONE OR TWO BUGS A MONTH. I WILL NOT REPEAT THEM ALL HERE BUT I WILL TRY THE 'NEW' MAILER ON THE PTOOLS DISK FOR A WHILE AND REPORT ON THAT.
- THERE ARE TOO MANY DIFFERENT SYSTEMS AT CERN - SHOULD HAVE ONE FOR ALL..
- I THINK THAT NOTE IS PRETTY GOOD... IT CERTAINLY KNOCKS THE COLUMBIA MAILER INTO A COCKED HAT !
- WHEN RECEIVING MESSAGES ON WYLBUR FROM OUTSIDE CERN, THERE'S TOO MUCH CR AT THE TOP OF THE MESSAGE - A 1 LINE MSG SOMETIMES BECOMES

10 LINES IN MESSAGES FILE. ALSO QUEEN MARY COLLEGE LONDON DOESN'T SEEM TO BE ON THE MAIL LIST AS THE UK STANDARD NAME ZMVA. GENERALLY MAILING SEEMS OK.

- IT WOULD BE NICE TO HAVE A SYSTEMATIC WAY TO OBTAIN ADDRESSES OF USERS ON OTHER COMPUTERS, ESPECIALLY OUTSIDE CERN. THE DOCUMENTATION ON NETWORKS ETC IS DIFFICULT TO UNDERSTAND OTHERWISE, ELECTRONIC MAIL IS WONDERFUL. PLEASE FORGET MY PREVIOUS ATTEMPT TO ANSWER YOUR QUESTIONS IF IT EVER REACHES YOU.
- IT IS AGES SINCE I WAS WAITING A QUESTIONNAIRE LIKE THIS? FIRST: MY ALL NOTEBOOK IS NOW 4000 LINES LONG, AND I DO NOT KNOW WHAT TO DO WITH IT. I SUPPOSE THAT THERE WILL BE A PROGRAM WHICH SPLITS THE SINGLE NOTES AND PRINTS THEM ON A NICE PRINTER ONE PER PAGE, SO THAT I COULD PUT THEM IN A PAPER FOLDER EVENTUALLY. SECOND: WHAT IS IN THE ALL NOTEBOOK IS UNMANAGEABLE, BEING A HUGE SEQUENTIAL FILE IT TAKES A LOT OF WORK TO FIND A SINGLE LETTER. WHAT IS NECESSARY TO MANAGE THE NOTEBOOK IS SOMETHING LIKE MAILBOOK EXEC, BUT PLEASE, NOT WRITTEN IN REX (IT TAKES MINUTES TO INITIALIZE, AND WASTES SYSTEM RESOURCES). WHO USES AN INTERPRETED LANGUAGES FOR FREQUENTLY USED COMMANDS WHICH REQUIRE A LOT OF PROCESSING SHOULD BE FIRED ON THE SPOT. IS ASSEMBLER TOO HARD FOR CERN SYSTEM PROGRAMMERS? THERE SHOULD BE A WAY OF GROUPING THE LETTERS BY SENDER, BY DATE, BY NODE, BY MATTER, USING SOMETHING LIKE KEYWORDS. JUST USING DIFFERENT NOTEBOOK FILES IS NOT PRACTICAL AND WILL CLOBBER YOUR DIRECTORY.
- SHOULD SEND A SIGNAL TO THE RECEIVER SO THAT ONE KNOWS THAT MAIL IS WAIT WITHOUT NEED OF TYPING MAIL OR LOGIN.
- THE USER INTERFACE OF EAN COULD DO WITH A FULL REWRITE.
- I FIND MAIL TO BE EXTREMELY SATISFACTORY WHEN USED IN CONJUNCTION WITH A NAMES FILE. MAYBE IT IS MY IGNORANCE, BUT IT WOULD BE NICE TO HAVE THE POSSIBILITY OF HAVING A MUCH LARGER DISTRIBUTION LIST THAN THE NAMES PANEL PERMITS. IT WOULD ALSO BE USEFUL IF A SORT OF GENERAL ADDRESS DIRECTORY OF NODES/NETWORKS/PHYSICAL ADDRESSES COULD BE COMPILED.
- CMS MAIL: THE PRINT COMMAND ON THE PF KEY DOES NOT WORK AS ONE WOULD EXP USING PEEK AND THEN XPRINT IS INCONVENIENT BECAUSE ONE EASILY FORGETS THE '*' FOR THE TARGET LINE. THE ONLY REASONABLE WAY IS TO RECEIVE THE MESSAGE FIRST, AND THEN USE THE PRINT FACILITY OF MAILBOOK. SM/RM: THE EXEC FILES ARE RATHER SLOW, AND THEIR ACTION IS NOT ALWAYS CONSISTENT (SENDING A REPLY WORKS DIFFERENTLY FROM SENDING A MESSAGE).
- THE ONLY DEFICIENCY OBSERVED SO FAR, IS THAT YOU'VE GOT MY NAME WRONG QQ
- PEOPLE DON'T READ THEIR MAIL
- WHEN A DISTRIBUTION LIST IS USED ALL THE USERS ARE SHOWN, WHICH FOR A LARGE GROUP CAN GENERATE A FEW PAGES JUST FILLED WITH NAMES.
- IT WOULD BE VERY INTERESTING TO RECEIVE ACKNOWLEDGEMENT WHEN THE TEXT IS READ EVEN NOT BY MAIL BUT I E WITH RDRL
- SEPARATION BY SUBJECT MATTER AS WELL AS PEOPLE WOULD BE USEFUL.
- WE DO NOT HAVE A 'MAILBOOK' (LIST OF NAMES AND ID) FOR OUTSIDE
- NONE
- NONE - VM/CMS MAIL IS FINE
- THE PROMPTS ARE NOT ALWAYS CORRECT OR UP TO DATE
- WORKING WITH WYLBUR AND VM IN ABOUT EQUAL PROPORTIONS, IT WOULD BE NICE TO SEE MESSAGES COMING TO BOTH SYSTEMS REGARDLESS OF WHICH ONE I AM USING.

- NEED SIMPLE ACCESS TO MESSAGES SENT FOR THE SAME USER TO DIFFERENT ACCOU
- ME IT'S OK...
- CANNOT USE THE REPLY OPTION. SHOULD INTEGRATE AS MUCH AS POSSIBLE OF TH I FIND THE ELECTRONIC MAIL SYSTEM INDESPENSIBLE AND MUCH MORE IMPORTANT THAN TH RECEIVED BY THE RECEIVING COMPUTER AND THAT AN ACKNOWLEDGMENT IS RETURNED, BUT D INTO A LOOP.
- 1. STANDARD IBM NOTE PROVIDES THE FACILITY FOR ACKNOWLEDGEMENT ON RECEIPT OF MAIL. THIS ACKNOWLEDGMENT REQUEST IS STRIPPED OFF WHEN MESSAGES LEAVE CERN FOR SLACVM. THIS WAS NOT THE CASE ORIGINALLY NOR DOES IT APPEAR TO BE NECESSARY (IBM SYSTEM -> IBM SYSTEM OVER BITNET/EARNET). 2. STANDARD IBM NOTE ALSO ALLOWS LRECL SIZES > 80 WHICH MEANS ONE CAN EMBED PART OF A LISTING FILE IN THE TEXT (USEFUL WHEN DEMONSTRATING PROGRAM BUGS ETC). THIS CANNOT BE DONE WITH THE CERN VERSION OF NOTE. AGAIN THERE APPEARS TO BE NO GOOD REASON FOR THIS, AND IT IS A PAIN TO HAVE TO MOVE THE P DISK AROUND TO GET THE IBM VERSION !
- UWIST
- I REGRET THAT NOT ALL THE COMPUTERS OF GENERAL USE (E.G: IEP DATABASE COMPUTERS) CANOT BE ACCESSED FROM, SAY, VM. IT IS ALSO NOT TOO CONVENIENT TO HAVE MANY DIFFERENT "MAILING" MECHANISM.
- I TEND TO FORGET VERY QUICKLY THE PROCEDURES TO BE USED TO SEND MAIL FROM ONE COMPUTER TO ANOTHER (INSIDE OR OUTSIDE CERN) AND I DO NOT EVEN RECALL WHERE TO LOOK FOR THE INFORMATION! A MORE DETAIL ANSWER TO THE REQUEST HELP MAIL, COVERING THESE ASPECTS WOULD BE APPRECIATED.
- NO MAJOR PROBLEM
- MAIN PROBLEM ON MOST SYSTEMS IS THE PAINFUL PROCESS OF FINDING OUT THE CORRECT MEANS OF ADDRESSING USERS OUTSIDE THE HOST COMPUTER, SUCH AS FROM CERN TO ARPA ADDRESSES OR JANET... IT APPEARS THAT USUALLY THE ONLY WAY IS TO TALK TO SOMEONE WHO HAS ALREADY ACHIEVED THE FEAT OF GETTING MAIL TO SAY A PARTICULAR ROUTE. I AM WORKING FROM THE UK MOST OF THE TIME VIA JANET, AND WOULD VERY MUCH LIKE TO SEE A SENSIBLE DOCUMENT ON 'HOW TO ADDRESS' AT SOME STAGE.
- QUERY DISK SYSTEM WORKS WELL.
- NONE, EXCEPT ITS NOT YET PROPERLY INTERFACED TH GREY BOOK MAIL.
- TRANSPARENT ACCESS TP=O ALL NETWORKS ACCESSIBLE FROM CERN
- IT WOULD BE NICE TO HAVE THE SUBJECT OF INCOMING MAIL DISPLAYED ON THE INPUT MENU. THAT WAY I COULD DETERMINE WHETHER I NEED TO READ THE MAIL NOW, OR SAVE IT FOR LATER. ALSO, A MORE CONSISTENT SET OF PFKEY DEFINITIONS BETWEEN MAIL AND MAILBOOK WOULD HELP A LOT. PF2 IS EITHER READ OR DELETE, TWO RATHER DIFFERENT FUNCTIONS!
- MAIL TO JANET HOSTS OFTEN GETS LOST WITHOUT ANY WARNING. MAILBOOK DOESN UNDERSTAND THE FORMAT OF MAIL RECEIVED FROM WYLBUR OR JANET HOSTS, AND REPLY OFTEN DOESN'T WORK WITHOUT MANUALLY CORRECTION OF THE ADDRESS. IT ALSO OFTEN CRASHES WITH AN INTERNAL ERROR! THERE IS NO FACILITY (THAT I KNOW OF) TO TELL WHERE A MAIL MESSAGE HAS GOT TO WHEN A LINK IS DOWN. SOMETHING LIKE FTP MONITOR WOULD BE NICE (THOUGH I REALISE MAIL COMMUNICATION AND FORWARDING IS MUCH MORE COMPLICATED THAN FTP).
- I FIND IT V GOOD. QQ
- GETMAIL FACILITIES BETWEEN VM AND UNIX MORE PEOPLE TO USE IT. IT IS NOT INTERESTING TO MAIL INTO A BOX THAT IS NOT EMPTIED.

- THE MAIL EXEC IS FULL OF BUGS.

- 1) IT USES THE Q CLASS AS A SCRATCH CLASS FOR CLASS M READER FILES WHICH ARE THEN CHANGED BACK TO M, SO IF A BATCH JOBS BOMBS WHILE THE USER IS IN MAIL ALL THE Q-CLASS FILES RETURNED BY THE BATCH MACHINE BECOME CLASS M READER FILES WHEN EXITING MAIL. THIS CAN BE VERY ANNOYING.
- 2) IT MISSES PROTECTION FOR CASE WHEN ONE SPECIFIES 2 USERID'S WHICH DO NOT EXIST
- 3) IT DOES NOT PROVIDE ANY SORTING ABILITY!!!!!!
- 4) IT MISINTERPRETS INFO IN THE NAMES FILE (NOT ALWAYS)
- 5) I HAVE NOT YET FIGURED OUT A WAY TO SENT THE SAME MESSAGE TO MANY PEOPLE
(BY THIS I MEAN \geq 50 PEOPLE ON COMPUTERS WHICH MIGHT NEED MANY CHARACTER TO DEFINE THE ADDRESS. I HAVE TRIED WITH A NICKNAME IN THE NAMES FILE BUT IT SEEM TO FAIL WHEN THERE ARE MORE THAN A FEW USERS SPECIFIED)

FINALLY I WOULD LIKE SOMEONE TO TEACH ME HOW TO CHANGE THE DEFAULT PF KEY DEFINITION AS I ALWAYS HIT PF2 TO INSERT A NEW LINE AND THE MESSAGE IS SENT BEFORE I FINISH IT. ONE BUG I FORGOT TO MENTION IS THAT WHEN ONE EXIT FROM INPUT MODE AND TRIES TO INPUT SOME MORE TEXT THE CURRENT LINE IS NOT UPDATED AND THE INPUT AREA STARTS AGAIN AT THE FIRST LINE SO ONE HAS TO COUNT HOW MANY LINES HAVE ALREADY BEEN ENTERED AND ISSUE A DN COMMAND !

2.1.2 Wylbur Users

- send and get files via packet switches is barely existing
- NO PROBLEM A PRIORI..
- A SEND FILE UTILITY ON WYLBUR INTERACTIVE DEBUGGING!
- VM = somewhat user-UNfriendly (when you're used to WYL). A question: is there a sort-of-a-list re. a) WYL b) (equivalent) VM
- Better list of ID/username correspondence
- stability, simplicity, worldwide error-free for small file transfer as messages (gathering of progress reports from worldwide sources)
- no queuing for index lines, no blue bulbs left in desk lamps a no smoking policy in terminal rooms would help a lot generally satisfied with the systems, tho I'd like the CDC to stay !,
- automatic formatting of the text to be mailed to "[D"[D"[D"[D
- sm/rm are good
- I hate WYLBUR editor but too lazy to move. Will go to VM when it support
- Mail systems tend to be overly complicated. There are in general a multitude of commands which duplicate the functions of editors command interpreters and filesystems. A mail systems should, in my opinion, do nothing more than sending a given file to a given destination.
- I would like to consult data bases & ask information of systems such as I believe they have in UK to find technical information, manufacturing products, firms providing certain services rather like manufactures of specific products, or providing services. I am told I am told there is a link up in UK between lots of goahead firms on EMS to exchange prices, information, mail, component availability
- The VMS and the DEC Unix mail facilities are good.
- A BETTER WAY TO GET USERS ID'S

- WHEN I USE EAN TO SEND MESSAGES ABROAD IT'S TOO SLOW,IT TAKES EVEN 2 DAYS. SOMETIMES MESSAGES SENT ABROAD ARE LOST.
- PSI COMMUNICATIONS OFTEN NOT AVAILABLE ALSO DECNET OFTEN NOT AVAILABLE LESS INTERRUPTIONS
- From time to time my mail outside CERN is returned because the address is not accepted at some point, and there is a long delay between the sending time and the return time. If mail is addressed to VAX or VM or WYLBUR it would be very useful that a message is delivered on the other systems informing you. The sender may not know on which system you are likely to be logged. The system may depend on the particular job you are busy with.
- I AM A REMOTE USER ONLY, HENCE 0-0-100 ABOVE, MY "OWN OFFICE" IS IN USA I AM USING MY WYLBUR-ID AS MAILBOX ONLY, I GET MESSAGES FROM PEOPLE AT CERN (100%). OF COURSE, LOTS OF THESE MESSAGES COME VIA BIT/EAR-NET DIRECT TO ME AT MICHIGAN, AND ALSO BY L3NET.
- Not clear how to send messages stored on files
- lack of directories, connectivity, uniformity, many minor points. lack of directories better connectivity and uniformity between systems.
- Missing store and forward
- ITS FINE FOR ME
- More coherence and better directory facilities
- A SINGLE MAIL FACILITY ON ALL SYSTEMS
- ENTIRE DESCRIPTION OF ELECTRONIC MAIL SYSTEMS AND POSSIBILITIES
- I DO NOT SEE WHAT IS THE "LATEST" WRITE-UPS, SINCE MANY OF THEM BECOME O
- REASONABLY HAPPY given it uns under WYLBUR
- A CLEAR LANGUAGE
- My use of the above mail systems is mainly to receive mail since I am a remote user of both systems at the moment. Because I am more familiar with using the mail system on my 'home' machine (RAL VM/CMS) I invariably use that for sending mail. This is not a complaint, rather a comment to qualify my answers above.
- Difficulties with complicated and non-uniform addressing systems - e.g it seems that my Wylbur address as seen from outside systems is not the same as inside CERN, and similarly with some outside addresses. Automatic filing of a copy of my messages would be more useful than remembering to send a copy to 'self' each time. An easy way of storing old messages in non-active (migrated) form would also stop my space budget from being exceeded.
- I'm a very casual user sending the odd message to colleagues at SLAC or in the UK. All I ask is that you keep it simple for people like me. I really can't be bothered reading all sorts of jargon and computerese. Keep the bells and whistles for the real hacks. As an example when I started to answer your first question it took four tries to get the answ accepted. a b no go. A B no go A,B no go. It finally dawned on me ab ! Hey presto. See what I mean.
- Lack of proper mail directories, constraints on EMF for backward compat compatibility.
- MORE ONLINE HELP FOR LISTS OF NODES REACHEABLE
- nothing in particular
- 1/. LIMITATION IN SIZE OF FILES (10000 CARDS ONLY IN DIRECTION CERN== >STRASBOURG, 20000 CARDS IN REVERSE DIRECTION. 2/. IF 1/. WILL BE BETTER, LIMITATIONS IN SPEED (ACTUALLY AROUND 30 MINUTES FOR 5000 CARDS BEETWENN CERN AND STRASBOURG)
- i don't know enough about it yet to answer
- I can't, your exec file does not accept the length of my comment. Oh! I can type more than one CR! Good. Well, I use Wylbur because I refuse to do any ridiculous crap such as changing transmission speeds, activating three PACXes or switching blue boxes on and off. Thus for me, the Wylbur bridge is at present the only way to send a message without taking my fingers off the keyboard
- lack of directory service and confirmation of arrival
- want to send messages to microvax in na37 but can't get there

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- integration of PC's, improved filing of messages
- lack of easy hardcopy output
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- integration of PC's, improved filing of messages
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2.1.3 Unix Users

- Lack of an actual user manual... then I could be more explicit!
- More user friendly system..... Same syntax on VMS, VM, UNIX machines Addresses more clear... (aaa!bbb!ccc is fine) EAN is too complicated to use and need a user manual ! Impossible to forward mail from vm machine to vax machines etc...
- it is easier tyo write on paper.
- It is almost impossible to guarantee the addressing of mail (from unix) to other systems outside CERN. Too many special cases, too much mail where R cannot be used because of addressing problems.
- a Name Server would be useful !
- need for a name directory
- Ability to autoforward mail from CERNVM Ability to autoforward mail from EAN Integrated Directory Service for E – Mail addresses
- It's fine for my purposes
- It's perfect. But then I've only been using it for 1 week.
- availability of search lists for names c computernodes, users, contact persons on each node to address to for further local information. better coordination between the various networks so that for the user it all looks as one network.
- Better integration with Word Processing and Database handling is desired. It would be nice to be able to search for information by keywords, time stamps etc. etc.
- For my personal use I find the mail system perfect as it is.
- I am satisfied
- Sorry – wrong answer to last 2 communication questions. I communicate with users on the Nord 500 (lepxs) aswell. I tend to consider this as the same computer that's all. I don't send mail to people not on cernvax or lepxs or uucp, partly because I don't know how to and partly because I don't need to.
- I would like that on UNIX and VM, there are the same commands for mailing....
- In general I am a happy can user. I particularly appreciate the folders capabilities, which allow me to organise the stuff into different subjects, which are then feasibale to maintain. The most serious area requiring improvement is directory facilities, and a better organisation of distribution lists comes not far behind. For directory: I want to be able to find the email address of anyone across the world. This is not trivial to organise well. For distribution lists: CERN and then each division should maintain a set of distribution lists (PS engineers, SPS programmers, CERN scientific staff, DD MCM etc.) which are available for general use. Another area that is related, but not normally considered as pure email is that of conferencing. I would like a good integration of CERN email into some of the external conferences. I think that the EEC is pushing the integration of X400 mail with COM/PortaCOM.
- see reply to questionnaire on VM
- How can i find the mail address of some one if he is not on the same system ? I will be happy to use only one unique type of prgm interface independent of the operating sys. whithout an acknowledgement of the machine receiving the msg I am never sure that it arrive to the user .
- directory service is urgent
- Well, see Denise's bug list for EAN!

- no comments
- no adequate directory not everybody at cern is reachable by electronic mail (maybe they feel above such humdrum facilities).
- I need a print facility directly from ean to central printers Sometimes I receive messages which are not addressed to me.
- I am very satisfied with it, of course including the "mint" facility.
- Mail directory
- Seems o.k. to me
- I have only just started using EAN instead of SM/RM and VM MAIL, so I can't really give details, but improved (remote) directory services would be useful.
- As I am maintaining the mail system I am using it is hard for me to say anything here.

2.1.4 VMS users

- inconsistent user interfaces
- too many systems
- Problems with EAN: Non-intuitive commands, very difficult to do anything for which the recipe is not known. VMS MAIL is far more friendly, and is for me the preferred system, if possible.
- Too many different mail systems. a new one every week
- have access to other mail systems (JANET,...) improved
- There is no store and forward facility, ie the computer you want to access has to be connected when you send the mail. Janet use it on vxcrna
- Installation of BITNET on VXCRNA.
- more informations about node - names outside cern (in Italy,France...)
- The following features would help me when dealing with technical enquiries: The ability to call up a full screen editor from within the mailing system. The ability to execute system commands (for example, to examine a file directory) from within the mailing system, or from within the full screen editor which was called from the mailing system. The ability to keep a copy of all messages, both incoming and outgoing.
- The bulk of my "Scientific or technical applications" I do on my home-lab VAX. I am using VXCRNA mainly for electronic mail and would be very glad to have Ean/Bitnet on this "central computer": it provides a useful and practically standard way of communication, allows for mail exchange with the U.S. (about 10% of my mail). I did try Ean and found it "heavy" and complicated to use.
- Grey Book: Invaluable for efficient wide-area X.25 connections. Very basic facilities and lack of interworking with other systems. Lack of support at CERN.
VMS Mail: Main problem is the absence of any re-try mechanism.
MAIL on VM: Main problem is the failure to integrate Grey Book Mail (which I also use from VM but with a different interface).
- I FIND IT NOT BAD AT ALL, BUT I'VE NEVER USED OTHER SYSTEMS
- insufficient documentation, too many overlapping systems (e.g EAN,vms MAIL) it is chosen officially (see the graphics case)
- I am using various mail systems but not very frequently. The biggest problem is obviously the differences of syntax.. and the user interface in general
- Reliable access from Janet please... Email directory (however hopelessly out of date...) Store and forward (retry) from ean into deernet PLEASE!
- I like VMS mail (partly because I'm used to it), but it's not good for communication with other networks. VM seems good for sending, I don't like it so well for receiving. Maybe that's because I haven't understood the MAILBOOK system yet, but the VAX system seems much nicer for filing (in folders), retrieving and printing (if the VAX has a printer).
- VMS mail is fine. It should learn about non-deernet connections sometime (and probably) will. I have sometimes received mail and even tried to use EAN. It is a piece of junk and should either be drastically improved or discarded. Post is good for its purpose. My experience with mail on VM is

limited. It suffers from the usual VM problems but works and is documented. I have had to use Wylbur sometimes because people send mail there. The mail system is ok. But, it is difficult to use Wylbur efficiently making it hard to use the mail system.

- I want to use ONE mail system and to have forwarding/replying/etc done easily. I need a directory of mail electronic mail addresses easily accessible from THE ONE mail system.
- Inability to use UK addresses
- In fact I use most of the existent mail systems. I am pleased by the fact that almost any system can exchange mail message at CERN, but I think the formal mechanism to elaborate and file the message should be more homogeneous.
- EAN has so many problems, that it is almost worthless. It uses files like .MAP, and .DIR with completely inappropriate functions. The error messages are worthless. As system manager of VXALUW, I am constantly running into problems with users who can't receive their messages, can't enter the EAN program, and more, and I have to constantly hound Denise Heagarty (sp?) for help. It is almost impossible to tell people outside CERN how to send mail here. The help file could be easier to use and understand. Why is it that when EAN gets one problem, the whole program becomes useless, rather than just a certain part? DECmail has problems mainly in going from one machine to another. The inter-CERN mail network is not exactly transparent. At the present, I am not able to send mail through GATEWAY (via VXALFB) because I don't have priveleges! Isn't there a way to make it easier to send mail across machines? Oh well, that's enough for now...
- Well, mail gateway failures. I've lost a mail coming from USA and had no way to know it has disappeared. Also, external Mail systems are sometime subject to failures, which is very frustrating, as you cannot reach somebody. Hopefully several mail systems exists, and you can try to use another one to reach your correspondent.
- BETTER ON LINE HELP FACILITY WITH UNAMBIGUOUS COMMANDS AN DESCRIPTIONS
- decnet/mail works fine for my needs
- This is impossible to answer.
- It would be niceto get the mails 'auto-forwarded' to any of the recommendet mail-systems one like. I didn't found up to now a way to get my mails arriving on CERNVM automaticly rerouted to my favorit account on VXCRNA. The reply of mails sended to the U.K. out of EAN are comming back to vms-mail and a reply is not possible.
- I'm satisfact with MAIL
- ean: 1. Inefficient use of disk space, space not reclaimed! 2. Doesn't take logical name (eg GIFT printer) for PRINT command 3. Speed. Try to make it rival POST's 30 secs to Uk? (Basically happy with ean, but you did ask) vms mail: (I don't use enough to comment)
- As not very much used there are few ideas.

3. Text Processing

3.1 System/Macro package used

- System used:

SCRIPT	176
TeX	16
xROFF	11
Runoff	10
Macintosh	7
NOTIS	5
Wang	2
Word	2

AES	1
VM NOTE	1
NED	1
DW3	1

- Macro package used:

Cernpaper	149
SGML	5
Syspub	5
Own script macros	4
Phyzzx	2

3.2 Output device used

APA6670 & 6670	158
Laserwriter	9
X2700	6
IBM 3800	6
"laser printer"	5
Xerox	4
X8700	1
Diablo	1
Miscellaneous	14

3.3 Size and lifetime of documents

The average size of texts types was estimated at 12 pages. There is a quite wide spectrum of (average) sizes:

Size in pages	# responses
1 - 10	133
11 - 20	50
21 - 30	15
31 - 40	5
41 - 50	3
51 - 60	1
61 - 70	0
71 - 80	0
81 - 90	0
91 - 100	0
101 - 110	3

The estimated average lifetime of the texts types has a very broad spectrum, but a substantial fraction is less than 100 days.

Life in days	# responses
1 - 100	97
101 - 200	20
201 - 300	1
301 - 400	25
401 - 500	0
501 - 600	5
601 - 700	1

3.4 Requirements on text-formatter

- National use characters (accents, umlauts, etc.)

Required 54%
Not used 46%

- Special symbols for greek and mathematics

Required 68%
Not used 32%

- Complex mathematical formulae

Required 52%
Not used 48%

- Print and presentation quality required

Typewriter 28%
Typographic 72%

- Automatically generated table of contents

Required 59%
Not used 41%

- "Easily" generated index

Required 50%
Not used 50%

- Footnotes

Required 73%
Not used 27%

- Graphics merged with text

Required 65%
Not used 35%

3.5 Why is the system used?

Have no secretary	125
Finds typing myself easier	122
Am secretary	28
Other	37

From the "other" can be mentioned:

- KEEPING REPORTS AND REUSE THEM TO BE MODIFIED AND REISSUED
- COMBINED USE OF IBM – PC AND MAINFRAMES, TERM EMUL + DW3
- CENTRAL COMPUTERS ARE FAST AND RARELY GO DOWN
- GROUP'S DOCP SCHEME IS ON WYLBUR.
- CORRECTIONS ARE DONE EASIER WHILE THE SECRETARY TYPES THE DRAFT. EASY ACCES
- SECRETARIES ARE SLOW, UNAVAILABLE, AND MAKE TOO MANY ERRORS IN
- RUSH THINGS ARE MADE FASTER IF EVENINGS AND NIGHTS CAN BE USED.
- USE OF GOOD QUALITY CERN PRINTERS
- I CREATE THE TEXT WHEN TYPING IT (OFTEN)
- SERVICE BASED ON DOCUMENT STORAGE AND RETRIEVAL FOR USERS
- PREPARATION OF THE MINI AND MICRO COMPUTER NEWSLETTER
- SOMETIMES IT'S QUICKER
- I DON'T USE THAT PROCESSING SYSTEM
- DATABASE MANAGEMENT, STICKER FACILITY, EASY AND CLEAN STORAGE OF USERLISTS, FI
- CANNOT AFFORD A PERSONAL COMPUTER!
- MY ISIS FILES SIT ON THE IBM
- I MOSTLY SEND SHORT MEMOS/PROPOSALS AS WORKING DOCUMENTS TO A
- I AM A STUDENT
- WELL, I DO NEVER USE THE CENTRAL FACILITIES FOR TEXT PROCESSING,
- CONSTANT UPDATING OF DOCUMENTS, MUST HAVE IN MY COMPUTER
- PRIVACY
- I TYPE DOCUMENTATION ALMOST SIMULTANEOUSLY WITH THE PROGRAMMING
- QUICK TURNAROUND
- AM FASTER IN GETTING WHAT I WANT
- TYPING MYSELF IS SOMETIMES FASTER. SECRETARY CANNOT HANDLE EQU
- OUR SECTION PRODUCES SUBSTANTIAL AMOUNTS OF DOCUMENTATION
- VISITOR
- PRODUCTION OF LISTS FROM DATABASE FROM LEP INSTALLATION.
- A, B, D: COMMON ACCESS TO SAME FILES BY EVERYONE.

3.6 Good points about the system used

3.6.1 Script

- PRINTER IS NEAR. FONTS INCLUDE MATH SYMBOLS
- HIGH QUALITY OUTPUT, SHORT TURN – AROUND, (SOME) GOOD MACROS.
- I HAVE NO EXPERIENCE OF OTHER SYSTEM BUT SCRIPT HAVE ENOUGH FACILITIES TO FORMAT MY TEXTS
- I WOULD LIKE MORE VERSATILITY FOR WRITING MATHEMATICAL FORMULAE. HAVE SE BETTER SYSTEM ON A VAX IN UPPSALA UNIVERSITY. WOULD ALSO

LIKE 1/2 SPACING ON THE APA6670 WITH THE OLD 6670 WE HAD A FONT SIZE THAT THE APA6670 DOESNT HAVE IT ANY MORE (ROMAN10 IS TOO SMALL, ROMAN12 TOO BIG, WOULD BE NICE SOMETHING IN BETWEEN) ALL OTHER THINGS ARE QUITE NICE

- PURELY TEXT INPUT IS EASY AND QUICK TO USE
- MARKUP APPROACH – VARIETY OF FORMATS AVAILABLE.
- TYPING PROSE ON THE SCREEN ENABLES ME TO WRITE AT LEAST 10 TIMES FASTER OLD–STYLE SCRIBBLING ON PIECES OF PAPER. THE PROSE THAT I WRITE IS ALSO MUCH BETTER SINCE IT IS MUCH EASIER TO EDIT, REPHRASE SENTENCES AND MOVE PIECES AROUND. AROUND. IT IS ALSO MUCH EASIER TO GET A PAPER OR REPORT STARTED SINCE THE INPUT FOR A PREVIOUS REPORT OFTEN PROVIDES A GOOD STARTING POINT. IN OUR GROUP IT TAKES A LONG TIME TO GET ANYTHING TYPED BY A SECRETARY AND THE OUTPUT QUALITY FROM THE PHILIPS WORD–PROCESSOR IS POOR AND THE RETYPING PROCESS ALWAYS INTRODUCES MORE ERRORS. THE RESULT IS THAT IT USES UP MUCH MORE OF MY TIME TO GET SOMETHING TYPED BY THE SECRETARY THAN IF I DO IT MYSELF. WITH MY OWN MACRO PACKAGE JJCRNPAP ON TOP OF CERNPAPER, IT IS POSSIBLE TO WRITE PAPERS CONTAINING MATHEMATICAL FORMULAE OF VERY MODERATE COMPLEXITY AND ACHIEVE BETTER RESULTS THAN WITH ANY OF THE OTHER SYSTEMS AVAILABLE TO ME AT CERN, E.G. MATHEMATICAL SYMBOLS SHOULD BE SET IN AN ITALIC FONT.
- SUFFICIENT CPU AND DISK RESOURCES AVAILABLE
- NICE HIGH LEVEL FEATURES, FOOTNOTES, REFERENCES ETC.
- THE CURRENT SYSTEM IS VERY FLEXIBLE, AS LONG AS ONE KNOWS SCRIPT.
- THE APA6670 GIVES USUALLY VERY NICE OUTPUT, THIS MAKES THINGS BETTER REA AND THUS MORE USEFUL. CERNPAPER OFFERS AN EASY WAY OF CREATING A NICE LOOKING LAYOUT WHICH MAKES ME INDEPENDENT OF USUALLY OVERLOADED SECRETARIES. THE MAIN COMPUTER SYSTEMS PROVIDE CONTINUOUS SERVICE 24 HOURS A DAY IN GENERAL.
- ITS THERE, CERNPAPER TYPE MACROS ARE USEFUL BUT OFTEN FAIL IF 'BARE' SCRIPT COMMANDS ARE USED.
- FAST WELL RUN
- APA NICE PRINTER
- WRITE–LETTER ETC ARE NICE TOOLS ON WYLBUR, IT WOULD BE NICE TO HAVE THEIR EQUIVALENT ON VM. USE OF ELECTRONIC MAIL SHOULD BE ADVERTIZED AND ENCOURAGED (GIVE ME A RING IF YOU WANT IDEAS ON HOW TO ENCOURAGE USERS TO ADOPT
- RATHER POWERFUL
- WHAT DO YOU MEAN BY 'SYSTEM' NOW ? SCRIPT ? VM ? ...
- GOOD DOCUMENTATION, RELATIVE EASE OF USE, GOOD PRINT QUALITY
- SGML IS FINALLY SOMWHAT OF A STANDARD SYSTEM.
- FLEXIBILITY AND STYLE OF MANUSCRIPT
- IT IS THE BEST SYSTEM PROVIDED BY DD ON THE CENTRAL COMPUTERS. THIS DOES NOT IMPLY THAT IN MY OPINION IT IS A GOOD SYSTEM. IN FACT, AMONG THE INTEGRATED SYSTEMS FOR TREATING TEXT, HIGHLY COMPLEX MATHEMATICS AND GRAPHICS, IT IS POOR COMPARED TO INSTALLATIONS LIKE TEX AT DESY AND SLAC.
- FULL SCREEN EDITING
- CERNPAPER IS EASY TO USE BECAUSE FOR MOST THINGS THE DEFAULTS ARE FINE.
- I LIKE THE FACT THAT THERE IS NO TIME–OUT AS THIS IS ALLOWS ONE TIME TO FIND THE CORRECT WORD OR PHRASE.
- I LIKE IT, BUT I AM NOT ABLE TO SPECIFY PARTICULAR POINTS.
- ACCESS TO ALL DOCUMENTS FROM ANY TERMINAL AT CERN.

- ...APA6670 SHOULD RUN A BIT MORE OFTEN...
- TOO MANY TO LIST
- GOOD QUALITY PRINTING, VERSATILITY
- FLEXIBILITY, FAST OUTPUT
- QUALITY OF 6670 PRINTER
- WHAT IS "THE SYSTEM"? SCRIPT OR CERNPAPER OR THE PRINTER? PROPORTIONAL IS GOOD AND TABULATION ESSENTIAL. SYSPUB WAS FLEXIBLE AND NICE TO USE, BUT I UNDERSTAND IT IS NO LONGER RECOMMENDED.
- VERY EASY TO USE, NO NEED FOR A GOOD MEMORY OR 'EXPERT KNOWLEDGE'
- NO DRAFT NECESSARY. SIT IN THE LAB WHERE DATA ARE.
- WHICH SYSTEM ARE YOU TALKING ABOUT ?
- It exists, but I can think of no other outstanding advantage
- Good points are: quality, easy to use, steady improvement of possibilities.
- availability of the printer, i.e. one can get the output IMMEDIATELY.
- The reason I use central facilities for doc preparation is that it is faster and easier to get the document I want than using secretaries (where you have to enter a queue and make several slow iterations for corrections). Interactive editing of documents is faster and easier than using pencil and paper. The good points of the current system (primarily unix) are:
 - a. Hierarchical file system aids keeping track of files
 - b. On-line unix manuals
 - c. USENET network news is good source of info (if filtered) and can put you in touch with other people who can help you solve particular problems.
 - d. ethernet communications.
- quality of laser printer output ability to use different fonts and text sizes etc output available immediately
- high quality output and reasonably good software
- I have not yet found anything I found particularly good
- powerful, quality of laser printer
- It works and is there. It produces nice output
- no answer
- More or less supported Pretty output
- self service/high quality/fast turn around
- It works
- High quality output
- Relatively easy to work with
- CERN PAPER IS SIMPLE, EASY TO USE, AND THE TURN AROUND FROM THE 2700 IS USUALLY VERY GOOD.
- I use cernpaper mostly for letters and short memos, but in case of need, it is practically impossible to have mathematical formulae nicely laid out without an awful lot of work!
- system availability at (nearly) all times of day (or night).
- output quality
- reasonably easy to use
- FAST.
- Laser printer close by. Works well enough. Have learnt SCRIPT etc.. NOTE: in case there are no more questions on this form, I also use W-P on personal computers in my office!
- easy to learn
- Availability of the Laser printer near us and the excellent services of the DD division (don't take them away...).
- Quality printing, local printing, speed
- They exist! and they allow me to carry on my work at any time without depending (explicitly) from any third person.
- Different sized fonts, bold, italic, footnotes, TOC, etc.
- it exists
- I KNOW HOW TO USE IT WITHOUT TOO MUCH TROUBLE, IT IS ACCESSIBLE FROM EASY TO USE, CENTRAL, REASONABLE GOOD QUALITY
- There is no good point. It's just the only one.

- THE FACT THAT I CAN DO COMPLEX MATHEMATICAL EQUATIONS WITH SUPER – AND SUB – SCRIPTS AND THE GOOD QUALITY OF THE OUTPUT (6670)
- My personal familiarity, ease of use, good help facility
- REASONABLY IDIOTPROOF
- it exists
- TIDY PRINT OUT, MANY AND FLEXIBLE FACILITIES FOR VARIOUS DEMANDS,...
- I can use SCRIPT both at CERN and RAL.
- Page formatting, automatic header fonts, etc
- It is easy to use I can get a 'rough' copy quickly on cheap and nasty paper, and iterate.
- FRIENDLINESS
- YOU GET A VERY BEAUTIFULL MEMO VERY QUICLY
- good quality output, system with embedded directives (NOT wysiwyg) most formats i want are available
- it works tolerably well
- Easy to handle, many ways of formatting helps in the presentation Once a formula has been entered (although slightly difficult), it is easy to reproduce and reprint.
- AVAILABLE MACROS, GOOD QUALITY
- That after a lot of trouble you get at the end a beautiful document.
- complexity is to some extent hidden via macros
- rubbish
- Feedback from output is useful for editing and planning
- none
- FAIR AMOUT OF CENTRAL FACILITIES. DOCUMENATAION AVAILABLE
- Good points: I have learnt how to use it. I can get advice if I need it.
- I LIKE IT FILING AND INDEXING SO THE PAPER DOESN'T GET UP TO THE WINDOWS IN MY OFFICE.
- Flexible enough to make lots of different things. Fast enough for short papers : immediate delivery of 6670.
- fast turnaround
- I'm only a novice user, but found it very easy to use (based on examples in the CERNPAPER writeup)
- Readable output, easily modified, fast real time generation of the output.
- High level of functionality Reasonably good turn round Good quality printers
- Printing quality. That's all.
- the 6670's print quality.
- I don't know how to answer this. What level of detail???
- I can do evrything from VMS, which is the system OC's users use, and is the friendliest, best supported system. GIFT is great, and XF is very useful in allowing the above. Apart from insertion of graphics, SCRIPT + A6670 gives me the ability to make documents which will be readable and effective.
- I am in the same building as the 6670.

3.6.2 Notis

- NOTIS – WP IS QUITE A REASONABLE TEXT – PROCESSING SYSTEM, MAINLY FOR LETTER TYPEWRITER WITH A PAGE MEMORY. BUT MUCH EASIER TO USE, AND WITH A MORE EXTENSIVE LIST OF CONTENTS ETC. SOME PEOPLE ALSO MANAGE TO DO ACROBATICS LIKE MATHEMATICAL FORMULAE.
- Notis – WP offers good editing facilities when used from a Notis terminal. It is very easy to use, and you don't have to type long sequences of keystrokes to manipulate the text.
- NO COMMENT
- As I said, (but your exec file interrupted me), I never use the central for text processing, I gave that up because it is so incredibly heavy to use with a slow turnaround (unless you happen to have your

office in building 513). There are many good points to the Notis products, the main one being that it is really two – dimensional, the other that I can choose between using it as a word processor or as a text formatter. The only real disadvantage I have come across so far is the absence of proportional spacing.

3.6.3 TeX

- THE BEST THING THAT CERN COULD DO WOULD BE TO GET TEX WORKING HERE. IT INTEGRATION, ETC. I USE IT AT SLAC FOR REASONS A AND B NOTED ABOVE.
- ITS EXISTENCE
- SCRIPT IS EASY TO USE (FOR STANDARD PURPOSES ONLY)
- EASE OF INTERCHANGE BETWEEN THE LARGE NUMBER OF INSTITUTES IN L3. TEX IS ALSO BETTER SUITED FOR COMPLEX EQUATIONS THAN IS SCRIPT.
- THE VERY HIGH QUALITY THE TREATMENT OF COMPLEX FORMULAS THE FLEXIBILITY OF THE SYSTEM
- TEX has extremely good output quality and equations. It is easy for physicist to use. It also can be used on PC's making it quite cost effective for document production. It is used at MIT and at DESY where I have worked recently.

3.6.4 Miscellaneous and multiple

- SCRIPT RUNOFF: RELATIVELY EASY TO USE FOR STRAIGHT TEXT
- NEITHER: I DONT... THIS EXEC FILE WONT LET ME SAY SO THOUGH !
- VMNOTE (XEDIT): APA6670: DIFFERENT FONT SIZES, PROPORTIONAL SPACING, GOOD APPEARANCE.
- SCRIPT, RUNOFF: LASER PRINTER
- DO NOT USE ONE AT PRESENT: ALTHOUGH I DONT USE TEXT PROCESSING AT PRESENT I MAY HAVE TO PRODUCE DOCUMENTS FOR SOFTWARE DESCRIPTIONS FOR DISTRIBUTION TO OTHER USERS AND SO MAY SOON USE THESE FACILITIES.. THEN THE FACT THAT THEY ARE ON THE COMPUTER MEANS THAT A) THEY ARE EASILY EDITED AND B) THEY ARE EASY TO TRANSMIT QUICKLY TO USERS IN WIDELY SEPARATED AREAS GEOGRAPHICALLY
- INTERNAL WANG: THE WIDE SPACE OF MEMORY FOR DATABASE
- SCRIPT SOMETIME ELSE WORD7: Begin to be good interconnected (not enough speed but correct) Databases accessible via CERNVAX and CERNVM (like usenet or csnews) Possible to send mail around world
- SCRIPT, NROFF: CERNPAPER uses MACRO – instructions.
- LOCAL NROFF: It is here and it works.
- NROFF ON UNIX CERNPAPER ON IBM: that it is workable.
- NROFF – ME nice printing with laser
- RUNOFF Relative flexibility
- EDITOR ON UNIX SYSTEMS same editor for programs and text. What you see is what you get!
- NROFF easy to use
- SCRIPT, NROFF Script's only good point is French accents, plus access to 6670. Otherwise I find it abysmal. nroff is OK and I greatly appreciate access to Priam Laserwriter, often just for plain text files without a formatter. For graphics and text I find a great void, and will look at Tex for this, plus any other more sophisticated uses I require in future.
- SCRIPT, MSWORD High quality output
- NROFF, TROFF: Too vague a question to reply to.
- MACINTOSH: macintosh is my favourite !

- WYLBUR: WYLBUR : RAPIDITY, MANY TYPES OF CHARATERS ON 6670
- WYLBUR: it's OK
- SCRIPT, NROFF: In fact, not much. You don't see what you get, which necessitates multiple trials. Wasted paper, wasted time. Also the combined manual for script and its predefined macros is more than 4 cm thick. How can you ever use all that effectively? I wouldn't believe it if I hadn't seen it.
- SCRIPT, SPS/WANG: EASY TO GET DECENT QUALITY KNOWING VERY LITTLE(SCRIPT AND WANG/SPS) GOOD QUALITY WITH LITTLE KNOWLEDGE (SCRIPT AND WANG/SPS) ESPECIALLY WANG/SPS WIICH HAS GOOD GRAPHIC FACILITY
- TROFF: easy to use
- NEVER ON MAINFRAM, USE MACINTOSH INSTEAD: ONLY good points of script is automatic index and contents. but I cannot work without WHAT YOU SEE IS WHAT YOU GET Also, once you are familiar with interactive graphics there is no way back.
- DO YOU COUNT WYLBUR, PHOTOCOMPOSITION? I really cannot judge since I don't know any other systems
- MACINTOSH: good fonts, styles, etc. easy to use.
- AES: AES is fantastic except for electronic mail. VM is only reasonable for AES is fantastic except for electronic mail.
- RUNOFF: very easy to learn and use
- MACWRITE, SGML: This text is an answer to the previous question: I use central facilities because I want the stuff distributed over the network. Otherwise local systems are superior
- NO: easy to use
- MACINTOSH MACWRITE: As one can see I don't use the central facilities for text processing
- TEX,SCRIPT: I am now in the process of converting all my text-processing work from the central systems to an Apollo + TeX + LaserWriter system.
- SCRIPT,TEX script cernpaper is well documented and works quite well tex is more powerful
- RUNOFF: Laser support for runoff

3.7 Bad points about the system used

3.7.1 Script

- MATH FORMULAE ARE TOO CLUMSY TO BE TYPED AT ALL
- USE OF SCRIPT, WHICH IS DIFFICULT TO USE FOR MATHEMATICAL PAPERS. MACROS ARE NOT ALWAYS AS FLEXIBLE AS WE WOULD LIKE. ABOVE ALL, LACK OF GRAPHIC/TEXT INTERLEAVING (FOR INSTANCE, IT WOULD BE NICE TO BE ABLE TO ADD H PLOT FIGURES AUTOMATICALLY IN SCRIPT TEXT).
- DIFFICULTIES IN BUILDING UP TABLE, FIGURES ... NO WAY TO SEE ON YOUR TERMINAL THE OUTPUT AS IT IS WITH ALL "SPECIAL" CHARACTERS AT THEIR PLACE
- SORRY, WROTE DOWN THE DEFICIENCIES UNDER THE PREVIOUS HEADING
- IT TAKES AGES TO MAKE A COMPLICATED MATHEMATICAL FORMULA AND THE RESULT IS UNSATISFACTORY FOR DIFFERENT REASONS, NAMELY: SQRT ROOT SIGN DOES NOT CONTINUE OVER DESIRED EXPRESSION. INDICES ETC. ARE UNSATISFACTORY, BECAUSE ONE IS LIMITED IN CHARACTER SIZES ETC.. ALMOST IMPOSSIBLE TO ALIGN VERTICALLY A CHARACTER WITH SUFFIX AND INDEX. INTEGRAL SIGNS FAR TOO SMALL. AND THERE SEEMS TO BE ONLY 1 SIZE FOR BRACKETS, ONE WOULD LIKE SEVERAL ALSO ONE WASTES A TREMENDOUS AMOUNT OF PAPER ON THE PRINTER TRYING TO GET EVERYTHING PERFECT.

- HEAVINESS OF CERNPAPER LETTER FORMAT. IT SHOULD BE POSSIBLE TO APPLY SEPARATE ADDRESS LISTS TO A GIVEN LETTER TEXT
- I HAVE PRESENTED MY VIEWS ON THIS ALREADY IN A NOTE WHICH HAS BEEN PASSED JOHN FERGUSON BUT HERE AGAIN ARE THE MAIN POINTS. THE TYPOGRAPHIC QUALITY ACHIEVED WITH SCRIPT OR SGML BASED SYSTEMS IS MEDIOCRE BUT PERHAPS ACCEPTABLE FOR DOCUMENTS CONSISTING ONLY OF NORMAL TEXT (I.E. NO MATHEMATICS). IT LACKS ALL THE REFINEMENTS OF TRADITIONAL TYPESETTING (E.G. LIGATURES, KERNING ETC.), HAS A VERY POOR HYPHENATION ALGORITHM WHICH OFTEN PRODUCES RIDICULOUS RESULTS AND THE FONTS AVAILABLE ON THE APA6670 AND THE LEP DIVISION 6670 ARE UGLY. FILES PRODUCED USING THIS SYSTEM ARE NOT READILY PORTABLE TO OTHER LABORATORIES SINCE SO MUCH OF THE SOFTWARE IS PRODUCED INSIDE CERN. SCRIPT WOULD PROBABLY BE ALRIGHT FOR PURELY ADMINISTRATIVE APPLICATIONS BUT IT COMPLETELY UNSUITABLE FOR A SCIENTIFIC LABORATORY. THE MOST SERIOUS DEFICIENCY IS THE COMPLETE LACK (BEYOND WHAT I HAVE WRITTEN MYSELF) OF ANY SOFTWARE FOR FORMATTING MATHEMATICAL EXPRESSIONS. ALTHOUGH THIS HAS BEEN PROMISED FOR YEARS IT HAS NEVER COME. I KNOW THAT WATERLOO IS DEVELOPING SOMETHING ALONG THESE LINES BUT THE INPUT FORMAT IS NOT VERY TRANSPARENT AND IT SEEMS A WASTE OF TIME ANYWAY SINCE MOST OTHER HIGH-ENERGY PHYSICS LABS (SLAC, DESY, LBL, FERMILAB, ...) AND HUNDREDS OF UNIVERSITIES AND OTHER INSTITUTIONS (E.G. ALL AMERICAN MATHEMATICAL SOCIETY JOURNALS) HAVE NOW SWITCHED TO USING TEX. THUS DESPITE THE WISHES OF THOSE WHO WISH TO IMPOSE ARTIFICIAL, SO-CALLED STANDARDS LIKE SGML ON US, TEX IS THE WORLD STANDARD FOR SCIENTIFIC TEXT-PROCESSING. THE LACK OF GRAPHICS MERGING WITH TEXT IS ALSO A GREAT NUISANCE. I KNOW THAT SGML HAS HOOKS FOR MERGING GRAPHICS FROM VARIOUS SOURCES. SO, OF COURSE, HAS TEX - I USED SEVERAL OF THEM DURING A RECENT SABBATICAL AT SLAC AND THEY WORKED VERY WELL. THE LITTLE IMAGEN PRINTERS THERE WERE ABLE TO PRODUCE ALL THE KINDS OF OUTPUT YOU EVER WANTED IN YOUR OWN CORRIDOR (GRAPHICS, TYPESET TEX OUTPUT, ORDINARY LINE-PRINTER STYLE LISTINGS IN SEVERAL SIZES AND BOTH ORIENTATIONS ETC.) . WE DESPERATELY NEED SOME SUCH FACILITIES AT CERN SO THAT PROFESSIONAL STAFF CAN GET ON WITH THEIR WORK EFFICIENTLY. ANOTHER DISADVANTAGE OF THE CURRENT SYSTEM IS THE TERMINALS WE HAVE TO USE. IT IS HARD TO WRITE MUCH ON A SCREEN OF 24 LINES - RATHER LIKE HAVING A 30 CM SQUARE DESK. IF A DECENT LASER PRINTER WERE AVAILABLE NOT TOO FAR FROM MY OFFICE I WOULD NOT WORRY ABOUT NOT BEING ABLE TO SEE THE RESULTS OF MY TEXT-PROCESSING ON THE SCREEN. THE PERPRINT FILE VIEWING WITH THE CURRENT SCRIPT IS NOT MUCH USE ANYWAY SINCE THE PARTS OF THE DOCUMENT THAT YOU CANNOT SEE ARE PRECISELY THOSE WHICH CAUSE TROUBLE.
- FLAT FILE SYSTEM CLUMSY MECHANISM FOR SHARING FILES BETWEEN USERS
- LAYOUT OF FUNCTION KEYS IS DIFFERENT ON DIFFERENT TERMINAL TYPES
- COMPLEX FORMULAE ARE DIFFICULT TO GET RIGHT THE FIRST 6 TIMES
- SCRIPT IS A DIFFICULT LANGUAGE TO USE FOR FORMATTING DOCUMENTS. IN GENERAL BATCH TEXT PROCESSING IS PAINFUL. TABLES AND POSITIONING TEXT IS DIFFICULT. THERE IS NO DECENT MATHEMATICAL FORMULA PROCESSOR (YET). PROOF READING ON VM IS NOT IDEAL.
- A MINOR PROBLEM IS THAT THERE IS NO APA6670 LASERPRINTER STATIONED AT LAB THIS COULD BE OVERCOME BY A EXTENDED DELIVERY SCHEME OF THIS SPECIFIC OUTPUT.

- BY THE CURRENT SYSTEM I MEAN SCRIPT ON CERNVM. I DONT HAVE TIME TO TYPE IN A COMPLETE LIST OF PROBLEMS, SOME THAT SPRING IMMEDIATELY TO MIND ARE :- YOU HAVE TO RE-IPL YOUR VIRTUAL MACHINE IF YOU MAKE A TRIVIAL MISTAKE SPECIFYING OPTIONS. ANY NICE OUTPUT SUCH AS THE APA 6670 CAN ONLY BE PRINTED AT CERN AS I KNOW NO OTHER INSTITUTION IN THE WORLD WHICH HAS YOUR VERSION OF SCRIPT, MACRO PACKAGES, OUTPUT DEVICE (INCLUDING FONTS) ETC. DESPITE FREQUENT REQUESTS, THE COMBINED EFFORTS OF THE CERN GRAPHICS GROUP AND THE WORD PROCESSING STAFF, HAVE STILL NOT PROVIDED BASIC FACILITIES FOR USERS TO MIX GRAPHICS AND TEXT ON APA6670, CLASS C ETC ETC. THERE ARE SOME LIMITATIONS IN THE USE OF NAMES FILES WHICH SEEM UNNECESSARY BUT THAT IS PROBABLY TOO DETAILED A COMMENT GIVEN THE BASIC PROBLEMS WITH THE SYSTEM FOR USE BY A TYPICAL CERN BASED EXPERIMENT.
- SLOW TERMINALS
- NO WYSIWYG EDITING. OC2700 NOT AVAILABLE FROM VM YET (STILL SOON....) (PU YOUR FINGER OUT SOMEBODY, AND GET ON WITH IT!) NOT YET POSSIBLE (OR IF SO NOT ADVERTISED) TO MIX TEXT & GRAPHICS EASILY ON THE APA - THIS WOULD BE EXTREMELY USEFUL.
- MERGING OF GRAPHICS WITH TEXT UNEASY NO INTERACTIVE GRAPHICS FACILITY
- AS ABOVE ON TOOLS NOW ON WYLBUR AND NOT YET ON VM.
- TAKES TOO MUCH TIME TO GET AN ACCEPTABLE LAYOUT TOO MANY CONFLICTS BETWEEN SYSPAPER OPTIONS AND BASIC SCRIPT NO SUITABLE DEVICE TO CHECK OUTPUT BEFORE PRINTING
- I SOMETIMES HAVE TO WAIT RATHER A LONG TIME TO GET LONGISH OUTPUT FROM THE 6670
- SGML LEAVES LITTLE FREEDOM FOR SPECIAL WISHES, LIKE: - RUNNING TITLES FOR CHAPTERS - POSITIONING OF THE ABSTRACT ACCORDING TO DIVISION'S RULES
- IT IS A LONG WAY FROM AN INTEGRATED SYSTEM FOR PROCESSING TEXT, HIGHLY COMPLEX MATHEMATICS, AND GRAPHICS, WHICH CAN BE USED BY PROFESSIONAL PEOPLE AND SECRETARIES SUCH THAT THE INITIAL TYPING OF COMPLICATED TEXT IS PERHAPS DONE BY PROFESSIONALS, BUT THE BEAUTIFICATION IS DONE BY A SECRETARY.
- COMPLEX MATHS EQUATIONS ARE DIFFICULT TO FORM
- NO SATISFACTORY HANDLING OF MATHEMATICAL FORMULAE LIKE TEX OR TROFF MERGING OF PROPORTIONAL AND EQUAL-SIZE FONTS ARE NOT ALLOWED.
- IT IS NOT POSSIBLE TO PUT PICTURES AUTOMATICALLY IN.
- PRODUCING TABLES CAN BE CUMBERSOME WHEN COMPARED TO A MACINTOSH
- I AM WORKING ON THE SPS SITE AND I DON'T LIKE THE DELIVERY SYSTEM. TO GET AN OUTPUT WITHIN A REASONABLE TIME, ONE NEEDS TO TAKE A CAR TO THE MEYRIN SITE AND WASTE HALF A MORNING OR AFTERNOON. APA6670 OUTPUTS ARE ALSO FREQUENTLY LOST.
- SLOW RESPONSE. NO FINAL LAYOUT VISIBLE ON SCREEN. NO COMPATIBILITY WITH TEXT PROCESSING ON STANDARD PC'S.
- SGML DOES NOT HAVE ENOUGH STANDARD 'FORMATS' YET, EG. DD REPORT.
- DOCUMENTATION IS SOMEWHAT CONFUSED FOR A SIMPLE MINDED HUMAN AS ME!
- ON MY PERICOM ALPHA TERMINAL (D1,P7) SPECIAL NATIONAL CHARACTERS ARE NOT DISPLAYED DURING PROOFREADING. ON THE OLDER (PA) TERMINALS THEY ARE DISPLAYED.
- NO RETRIEVAL FACILITIES, NO GRAPHICS, OLD STYLE MARKUP LANGUAGE.

- POOR RELIABILITY OF 6670 REALATIVE DIFICULTY OF SCRIPT TROUBLE WITH READING PROOF FILES CONTAINING ACCENTS AND SPEDIAL CHARS ON EITHER PERICOM OR MCINTOSH RELATIVE DIFICULTY OF CERNPAPER COMPARED WITH MINICOMPUTOR WORDPROCESSORS LACK OF EXPERT HELP AND ADVICE FROM UCO OR TERMINAL POOL FOR THE GENERAL PUBLIC DIFICULTY OF COMMUNICATIONS VERSATERM-KERMIT WHO UNDERSTANDS TRANSLATE TABLES?
- THE DOCUMENTATION OF CERNPAPER IS HARD TO LEARN FROM AND APPEARS TO CONTA A NUMBER OF MISTAKES. I HAVE NOT LEARNT HOW TO MIX A GOOD SELECTION OF NATIONAL CHARACTERS WITH MATHEMATICAL SYMBOLS AND (EG) P-BAR (FOR ANTIPROTON).
- LACK OF TELEX.
- SEE ABOVE. IN ANY CASE IF YOU MEAN THE VM ENVIRONMENT AT CERN I THINK THAT THERE ARE MANY THINGS WHICH COULD BE IMPROVED LIKE HAVING A BETTER AND FASTER RESPONSE TO PROBLEMS REPORTED BY USER. FOR EXAMPLE FOR THE MAIL BUGS QUOTED ABOVE I TALKED TO THE PERSON RESPONSIBLE FOR IT WHO TOLD ME THAT CERN POLICY IS NOT TO MAKE LOCAL MODS OF OUTSIDE PRODUCTS (INCIDENTALLY I HOPE YOU ARE NOT PAYING A FORTUNE FOR THE MAIL EXEC) AND SO I HAD TO LIVE WITH BUGS. OTHER THING I HAVE BEEN COMPLAINING SINCE I GOT AT CERN (6 MONTH) AGO IS THE FACT THAT THE CC OPTION DOES NOT WORK WHEN SENDING OUTPUTS TO THE XEROX 8700 PRINTER. I UNDERSTAND THAT THE COMPUTER CENTER IS UNDERMANNED (OR AT LEAST IS SCARCE IN PEOPLE WHO DO REAL WORK) BUT FROM THE POINT OF VIEW OF THE USER IT IS VERY FRUSTRATING. FOR EXAMPLE ONE THING WHICH IS TOTALLY MISSING IS THE POSSIBILITY TO DISPLAY EVENTS OR GRPHICS ON THE XEROX 8700 (FROM VM) WHICH MAKES IMPOSSIBLE ANY TYPE OF EFFICIENT SCANNING IN APERIOD WHERE IT IS NEE MOST BY ALL LEP COLLABORATIONS TO DEBUG SIMULATION PROGRAMS AND TO LOOK AT TEST BEAM DATA. ONE THING WHICH IS RATHER GOOD IS THE TAPE HANDLING EXEC STAGE AND ALSO I HAVE NO COMPLAINTS ABOUT THE BATCH ORGANIZATION.
- No figs in text No link with email, documentation schemes, etc Lack of proof-reading capability (by figs above, I meant graphics)
- Too much differents Editors (why emacs is not used ?) Routing of mail (forwards) Not enough modems for external connections with phone Peo is a good idee but with so much operatings systems it's very very hard to find the right person! The use of the network give me Headache !!!
- Sometimes rather long waiting time when many jobs are being printed on the 6670.
- The APA6670 is often down !
- complexity could be further reduced using MORE macros
- a. Unfriendly human interface b. Commercial software availability less than on VMS say c. Poor performance of FORTRAN d. System response too slow due to too many users
- Lack of graphics facilities Inability to see exact final layout on the screen Extremely bad error indications n
- It's inconvenient to use script from unix. (I have to use script because the rest of my group uses it) Some features of cernpaper do not seem to work correctly.
- I always forget the commands, and it is not so very well adapted to the Tandberg to the Tandberg 2200 as other systems I use.
- As I already suggested, it takes a lot of trouble to get the stuf right.
- lenteur d'execution sur VAX UNIX
- User interface is less than perfect. Local system so the docuemnts are not transportable (easily). Ouput facilities too limited, graphics too hard to incorporate. Secretaries cannot/ cannot easily work with it. In particular I would like to be able to directly correct a doucment that a secretary had typed in.
- with the use of graphic terminal obtain on the screen the final presentation of the paper.

- Not wysiwyg No integrated graphics More or less supported
- imbedded graphics would be nice
- Clumsy, difficult to use, no serious preview (Tex has got very good previewer on PCs and PWs), What You See Is NOT What You Get
- everything
- Very cumbersome to create anything for which there is no macro. A lack of monospaced character sets on the 6670. Ideally a Macintosh style interface would be preferred. The current system has occasional bugs, which only a limited number of people at CERN seems to be able to handle. If these people are away, then one is sometimes stuck.
- impossible to visualize interactively the result not at all user friendly, contrary to the personal computers
- RESPONSE TIME
- Bad points: Users of proportionally spaced character sets can get only a very rough idea of what their document will look like before they print it.
- I THINK MOST DEFICIENCIES ARE MINE, NOT THE SYSTEM'S
- Slow for medium and long papers (no fragmentation made by the system). Not easy to put simple graphics in text .
- incomprehensible unless used every week. After 3 months when I produce a new document, I have to relearn all those script directives. It is very powerful and flexible I admit, but really pretty awful to use. (One exception: help write – letter is beautiful, unless you try to be clever and want italics or anything. Then you fall in a pit.)
- Which system? There are too many variations. Tables and graphics are difficult. There are too many options, but never the one you need. There are bugs. You have to worry about formatting and contents at the same time. You usually have to make too many iterations to get it right. Almost everyone uses something (slightly) different.
- Non – uniform availability between VM, MVS and VMS. Very limited support for graphics output (only X87HPLT) Inability to mix graphics and text.
- Bugs, instability (sometime it does not behave the same the following day). No way to produce imbedded graphics and/or bitmaps. Ease to use it interactively on VM only.
- SCRIPT. It has an old fashioned design.
- Or this? Would lack of colour be considered a good answer?
- I didn't found a way to run SCRIPT directly by logged in on VXCRNA. Up to today I didn't found any documentation who to produce non text –output (pictures, graphics) directly with SCRIPT but I saw already some of such outputs coming out of the A6670.
- The connection system with INDEX and the waiting time to enter are not good.
- Do you mean deficiencies of the text preparation system? let us assume you do. Enormous quantities of my time and energy, computer time, printer time, paper and patience would be saved if I could see what I was to get as I typed it. I can do it on my IBM – PC, I want it under VMS. If you haven't seen a good WYSIWYG Word processor on a 24*80 screen, look at Microsoft "word" for example. So it doesn't exist under VMS. Let us be on the lookout for the equivalent.

3.7.2 NOTIS

- SOME ADVANCED FEATURES ARE DIFFICULT TO USE OR ABSENT, LIKE AUTOMATIC NUM FOOTNOTES, INDEX, MULTICOLUMN PRESENTATION, PROPORTIONAL SPACING, SPECIAL TYPE FACES (FONTS) ETC.
- The Notis – TF text formatter can be very annoying in use. It should have been better integrated with the editor, thus avoiding the batch type operation of formatting. In recent versions, however, this is improved, but it is still a long way to go. My ideal system is best described by "what you see on the screen is what you get on the printer". The system conforming closest to this is probably Word Perfect running under DOS on my PC.

3.7.3 TeX

- AS I NOTED EARLIER, YOU NEED TO GET TEX WORKING HERE!!!!
- I WOULD LIKE TO HAVE TEX INSTALLED ,BECAUSE IT IS MORE POWERFULL THAN SCRIPT IS.
- TEX IS NOT THE EASIEST PROCESSOR TO LEARN. ...BUT THEN, NEITHER IS SCRIP
- to my knowledge: not enough laser printer easily available
- TEX and laser printers are not generally available.
- Cern doesn't support TEX. It also does not support output of graphics to laser printers. These are extreme deficiencies. The lack of graphics on laser printers seems particularly senseless.

3.7.4 Miscellaneous and multiple

- SCRIPT RUNOFF: ALMOST IMPOSSIBLE TO PRODUCE FORMULAE (ITERATIVE PROCEDURE) ONE DOES NOT SEE WHAT ONE GETS ON THE TERMINAL THE USER INTERFACE IS LOUSY (HAVE TO KEEP MANUAL ON YOUR KNEES) NO INTERFACE TO HPLLOT WOULD LIKE TO USE TEX, BUT NO SUPPORT
- VMNOTE (XEDIT): THERE IS ONLY ONE APA6670 IN THE WHOLE CERN, NO SPREADSHEET OUTPUT CAN B INSERTED IN THE SCRIPT FILE AUTOMATICALLY, LACK OF MATHEMATICAL SYMBOLS.
- SCRIPT,TEX: NO MAJOR PROBLEM
- NROFF ON UNIX CERNPAPER ON IBM: The ibm system looks as if it is 20 years old if you come from unix (or vms)
- NROFF – ME: good quality of printing due to laser
- RUNOFF: Screen editor and mail are not joined.
- EDITOR ON UNIX SYSTEMS: No graphics and have to wait a long time for output from laser printer. Also I have to go to the Meyrin site to get the output. Why is it not possible to deliver output directly to my office? For short text or urgent text I have a fairly high quality but slow printer connected to my terminal. Difficult to get information printers from cernvax/unix point of view. (i.e. I don't read most of the wylbur/vm documentation about printers, on the assumption that it is not 100% applicable to cernvax/unix)
- NROFF: do not find it trivial to avail myself of the goodies mentioned above eg index, mixing graphics
- SCRIPT,NROFF: Script is 1950's style. nroff 1960's. I want a wysiwyg input system and a powerful laser –based output system WITHOUT THE NEED TO INSERT MARKUP COMMANDS IN MY SOURCE FILE, for all "normal" work. Otherwise I'll continue using the simplest possible means and accept simple output, but at the same time regretting that a 1980's system is not available.
- SCRIPT,MSWORD: Printer too far from office, cannot view exact state of output before printing.
- NROFF,TROFF: What system are you referring to?
- NED: attente trop longue pour entrer dans le systeme systeme lent a cause du nombre d'utilisateur
- MACWRITE, SGML: The user interface is far from the state of the art in workstations.
- MACINTOSH MACWRITE: Don't know...I personally find the use of MacIntosh most convenient
- TEX,SCRIPT: Impossibility of transfer of documents to other computer systems. Inadequate treatment of Mathematics (not very important now, but relevant when L3 starts to do physics).
- SCRIPT,TEX: cernpaper cannot do (and with script is complicated) even simple things like getting rid of the page number, or having it in different position etc.
- RUNOFF: no problems for my specific needs

3.8 Improvements desired

3.8.1 Script

- SEE ABOVE. RECTO/VERSO ON APA6670
- EASIER FORMATTING OF THE TABLES , FORMULAE A WAY TO SEE ON THE TERMINAL WHAT YOU ARE REALLY PRODUCED GRAPHYCS
- IMPROVED LETTER FORMAT. MERGING OF MACINTOSH PRODUCED GRAPHICS WITH TEXT.
- I ALREADY LISTED SOME OF THE THINGS I WOULD LIKE TO SEE. HOWEVER I THINK IS POINTLESS TO TRY TO PATCH UP THE INADEQUACIES OF THE SCRIPT SYSTEM WHEN A MUCH BETTER SYSTEM, MEETING ALL THE REQUIREMENTS ALREADY EXISTS AND COULD ME SET UP ALMOST IMMEDIATELY AT NEGLIGIBLE COST. I AM NOW SO HAMPERED IN MY WORK BY THE CURRENT SYSTEM THAT I DO NOT CARE WHAT ELSE HAPPENS AS LONG AS TEX CAN BE INSTALLED ON VM/CMS AND AN APPROPRIATE PRINTER IS MADE AVAILABLE SOMEWHERE IN MY BUILDING.
- HIERARCHICAL STRUCTURE IN THE FILE SYSTEM
- MACROS FOR FORMULAE
- A WHAT-YOU-SEE-IS-WHAT-YOU-GET FORMATTER. A GOOD MATHEMATICAL FORMULA PROCESSOR. A USER FRIENDLY TAGGING SYSTEM WHICH IS EASY TO LEARN AND FLEXIBLE. BETTER PROOFREADING SUPPORT ON VM.
- TEX
- HIGH SPEED + QUALITY TERMINALS, WHICH CAN CONNECT ALSO TO DEC AND UNIX S
- GET THE BLOODY OC2700 CONNECTED TO VM SCRIPT! AS SAID, TWOULD BE NICE IF THE APA COULD DO GRAPHICS/TEXT FREELY INTERMIXED
- INTERACTIVE GRAPHICS/DISPLAY OF DOCUMENTS BETTER WAY FOR DESIGNING MATHEMATICAL FORMULAE (COMPARE FOR INSTANCE TO LATEX AS RUN AT DESY
- MAYBE ANOTHER 6670?
- 1. INSTALL TEX 2. TEACH SGML TO SECRETARIES 3. INTEGRATE GKS GRAPHICS BUY IBM 3812 OR SIMILAR IN VAST QUANTITIES
- IMPROVE DELIVERY SERVICE CONCERNING APA OUTPUTS.
- 1. 'COMPLETE' SET OF STANDARD FORMATS FOR SGML. 2. MORE 3812S TO EASE THE PRESSURE ON THE 6670. 3. A MORE USER FRIENDLY AND ROBUST METHOD OF TRANSFERRING MACINTOSH GRAPHICS TO CERNVM FOR MERGING INTO A DOCUMENT WITH SGML. THE KERMIT/MACINTOSH/VM DOCUMENT IS LESS THAN TRANSPARENT, ESPECIALLY CONCERNING THE PF KEYS, AND TOO MANY (LINE ?) ERRORS ARE OCCUR ON TRANSFER.
- DOCUMENTATION
- AN EASY WAY TO DISPLAY 132 COLUMNS. ON MY TERMINAL THE SCAN-COMMAND WORKS ONLY IN CLASS 101
- REPLACEMENT.
- MORE REMOTE LASER PRINTERS GRAPHICS ON 6670 EASIER TABLES AND MATHIS FORMULAE ON CERNPAPER
- easier manipulation of non-English character sets maximum output size on the 6670 should be more than 20 pages more comfortable use of graphics (solve layout problems due to variable spacing)
- Improved response time and more INDEX lines.
- Being able to "bridge" from unix to the ibm would be nice. Being able to run script transparently on the ibm from unix would also be nice.

- Better adaptation to my terminal TDV 2200S
- The outlook of the document printed on the 6670 and scanned on the computer are different, this means that if you want to check your document, you always have to print it first.
- is it impossible to have the choice between UNIX and VMS on the same comp
- SGML. Better integration with document filing and retrieval schemes (Cerndoc).
- Fix the above deficiencies (that would include a high – quality PWS for me!)
- More interactiveness, simplicity at least for simple things (like memos, letters, short notes), possibility of running on other computer systems, not only VM/CMS.
- I basically use a PC for most purposes, using remote access to various hosts only for: – high quality printing – electronic mail – access to local databases, eg ORACLE – access to remote (off–site) databases I think that some reasonably coherent and integrated software could be provided for my PC to make this easier (and Kermit is NOT the answer to everything!)
- everything
- I would like a “What you see is what you get” style system (Macintosh). More laserprinters, and the possibility to merge text and graphics easily without having to do N iterations before the result is ok.
- Standardisation and stability
- they would be impossible to implement !
- BETTER RESPONSE TIME
- I should like to be able to print some documents near my office (building 31, third floor).
- sometimes it takes ages to log on
- Interface between a tool to generate graphics and drawing (Mac Draw like) and the text processing system. The possibility to transport and print texts to others HEP centers.
- The “computer” philosophy of script/nroff are the biggest problem. The WYSIWYG (what you see is what you get) is now available so easily and cheaply that I would prefer to see Cern moving in that direction. (Macintoshes, or even the Amstrad PCW 8512 gives you WYSIWYG for 400 pounds Sterling plus VAT.) A few dozen of these machines around Cern, plus a bit of software on the central machines to accept documents over rs232 and print them on the 6670 would be (a) very useful (b) very cheap. (The Amstrad already contains its own software for pumping it’s documents out down an RS232.) I’m not saying that the Amstrad is as flexible as Script. I am saying that it would cover 90% of current “primitive” script usage. There will always be 10% of people with really sophisticated needs. They have the motivation to become script gurus. The rest of us haven’t!
- A full screen system, defaults and prompts for standard items like memos, reports, minutes, tables etc etc. i.e. fully interactive. ‘What you see is what you get’. Works on different printers without major surgery.
- See deficiencies above.
- Graphics and bitmaps in text. Interface to a database system (Oracle) Interactive usage on other computers. Improve the doc.
- Full screen interactive word processor.
- I would need 4 weeks to think about this.
- having direct acces to SCRIPT and A6670 from VXCRNA, having possibility to insert non – text parts (HPLOT output, pictures, graphics) directly into SCRIPT outputs.
- A system connection with phone lines.
- A WYSIWYG editor handling which will drive typesetting quality output devices with full functionality.

3.8.2 NOTIS

- FOR ME, IN MY PRESENT ACTIVITIES:

1. VERY FLEXIBLE AUTOMATIC NUMBERING OF PARAGRAPHS ETC. (NOTE THE PRESENT SYSTEM IN NOTIS-WP IS VERY INFLEXIBLE!)
2. A WIDER RANGE OF FONTS AND FONT SIZES, WITH PROPORTIONAL SPACING WHERE
3. AUTOMATIC FOOTNOTES WITH A FLEXIBLE NUMBERING SYSTEM.
4. AN INDEX-CREATION FACILITY.
5. PRINTING OF LETTERHEADS, LIKE THE CERN LETTERHEAD WITH GOOD QUALITY.

3.8.3 TeX

- TEX AT CERN ?
- I THINK THAT I COVERED THEM EARLIER. TRY TO INCORPORATE AS MUCH OF THE S MAIL SYSTEM AS POSSIBLE, AND GET TEX WORKING HERE. ALSO, GO TO 43 LINE TERMINAL I WOULD BE HAPPY TO DISCUSS ANY OF THESE POINTS FURTHER WITH ANYONE INTERESTED.
- TEX SHOULD BE MADE AVAILABLE ON THE CENTRAL SITE COMPUTERS.
- TeX/LaTeX should be officially implemented on CERN central computers.
- TEX laser graphics.

3.8.4 Miscellaneous and multiple

- SCRIPT RUNOFF: MAKE TEX AVAILABLE !
- VMNOTE (XEDIT): DOUBLE SIDE PRINTING.
- NONE OF THOSE, WOULD LIKE TO USE TEX: ANOTHER APA6670 NEAR THE MAIN BUILDING (REST. N.1). TEX SUPPORT. SUPPORT TEX ALSO, PAST EXPERIENCE TELLS ME IT IS BETTER.
- SCRIPT,NROFF: Clear error/warning messages from the text processing system.
- NROFF ON UNIX CERNPAPER ON IBM: t that is a bit too much to answer right away
- EDITOR ON UNIX SYSTEMS: Laser Printer like the one in the computer center on the Prevesin site. Quicker output – i.e. smaller queue. Double sided single sheet output (maybe possible anyway – I don't know)
- SCRIPT,MSWORD: Printers on every floor, wysiwyg type software
- TEX,SCRIPT: Conversion to TeX as the typesetting sub-system. No objections to SGML on top of TeX if there were any chance of standardisation of tags (at least) within HEP.
- SCRIPT,TEX: a set of macros to handle the layout of the page piece by piece

4. Data Bases

4.1 DBMS software used

Oracle	44
KAPACK	8
Isis	7
"ADP"	3
Zebra	3
DBM	1
Wang	1
Excel (Mac)	1

Other 9

4.2 Data stored in database

- exp constants
- occasional searches for LEP Notes
- our data is stored merely in normal text and data files
- exper. data, detector description, calibration const. etc
- references with quotations and comments
- lists of tapes (to play)
- EXP DATA, GROUP INFORMATION
- budgets, prices
- experiments constants
- physics output tapes etc.
- Inventories
- I develop applications for all of Cern and elsewhere
- test data
- For information of experiments
- db1 db2
- My data are essentially on tape (received from US and Europe Data Banks)
- LEP VACUUM SYSTEM LAYOUT, CABLING AND ORDER FOLLOW UP, LEP INVENTORY
- test, calibration
- WW
- X.25 network info.
- lep
- phone
- PREPRINTS
- DATA BASE SET UP BY OUR GROUP FOR OUR TAPES
- LISTS
- ALEPH_MONTECARLO
- NUMBERS !
- GRAPHICS, MATHEMATICAL AND INVENTORY.
- AVAILABLE FILES
- ALL
- REFERENCES,
- OC POOL DATABASE
- LIBRARY REFERENCIES
- LIBRARY ISIS DATA AND MY EXPERIMENT'S KAPACK FILES
- PERSONNEL
- INVENTORY, BUDGET ETC.
- EXPERIMENTAL CONSTANTS WHICH DEPEND ON RUN NUMBER + POSSIBLY BOOK – KEEPIN
- BIBLIOGRAPHIC AND RELATED
- MY OWN CATALOGUING AND BUDGET INFO.
- ORGANISATION OF EXPERIMENTAL DATA
- DEV
- Info data
- Book and preprints
- project management, equipment data
- information for document storage & retrieval
- Course and test
- network representation

- EMDIR
- Address list, meetings for Esone
- various
- uucp hosts
- VAX S/W MODS
- EDITOR FILES
- DETECTOR DESCRIPTION, CALIBRATION CONSTANTS, TAPE BOOKKEEPING, ETC.
- INSTALLATION
- ALEPH_MONTECARLO
- ORACLE....PROBABLE USE FOR DATA, RZ FOR FORTRAN ACCESSIBLE DATA
- CRYSTALS BGO FOR EXPERIMENT L3
- CALIBRATIONS,MANAGEMENT
- L3 CALIBRATION, RUN CONDITIONS ...
- OUR OWN (PROGRAM LIBRARY STATISTICS)
- EMDIR
- WELL, SYSTEM DATA, E-MAIL DIRECTORY, EQUIPMENT DB ...
- TECHNICAL
- SOURCE CODES
- WE LOOK AFTER THE SYSTEM. THERE IS A DB OF USERS.
- CABLES INSTALLATION AND ACTIVITIES OF INSTALLATION CONTROL.
- PROJECT DESCRIPTION INFORMATION: THINGS, PEOPLE, DOCUMENTS...

4.3 Good points about system used

4.3.1 Oracle

- G MANY
- IF 'SYSTEM' MEANS HERE THE DBMS, I THINK, OF COURSE, THAT ORACLE IS GREAT
- EASY TO USE. USERS ONLY HAVE TO SPECIFY WHAT THEY WANT AND NOT HOW.
- THE LANGUAGE SQL IS EASY TO USE.
- THE CONCEPT OF RELATIONAL DATABASE, VMS AS THE OPERATING SYSTEM.
- EASY TO USE. WELL DOCUMENTED. FLEXIBLE.
- Very handy for simple applications
- Very fast, can be used with script
- Fairly easy to use
- slow, unfriendly
- It exists, it works, it is available on VM/CMS, VMS and IBM-PC
- EASY TO LEARN REASONABLE ACCESS OF LARGE TABLES LOGICAL GROUPING OF DATA ITEMS
- GOOD SUPPORT FROM DD, NICE RELATION WITH THE DATABASE ADMINISTRATOR SOLID TECHNICAL KNOWLEDGE OF THE DD ORACLE DATABASE TEAM.
- Widely accepted standard query language. Usable Fortran interface Acceptable to good performance in my tests Proof against many user and system malfunctions (all above relates to ORACLE)
- Again as a relative beginner I appreciate the ease of extraction of data . So far no problems with speed of response but this might become a problem in future
- oracle is powerful and well documented rz is simple and easy to use in a fortran program
- Interactive.
- Versatility
- Availability on various machines with the same interface. The generality of the product. The network interfaces ...

- I have submitted a document on this.
- communicative database

4.3.2 KAPACK

- Portability.
- Data are available to FORTRAN programs in an organised way Reasonable structuring available from the user point of view Data are available to FORTRAN programs in an organised way Reasonable structuring available from the user point of view
- simple

4.3.3 ISIS

- X25 ALLOWS INTERACTIVE FACILITY EARN ALLOWS TRANSFER OF BIG FILES IN BATCH
- Interactive input and retrieval, powerful retrieval language, possibility to extract statistical information
- It's an IR system developed by librarians for librarians.

4.3.4 Miscellaneous or multiple

- zebra: FREE AVAILABLE ON IBM AND VAX
- sql/ds, oracle: NO COMMENT AS YET
- ORACLE on CERNVM, SQL/DS on RAL VM: ITS RELATIVELY PAINLESS TO USE
- INFOL ORACLE: RATHER EASY TO GET STARTED
- MACINTOSH EXCEL: Availability
- IMAGE (SOON CONVERTING TO ORACLE): image is history and its too soon to say for oracle
- WANG/SPS: CLOSE TO MY OFFICE
- DOCUMENTREGISTRATIONSCHEME: easy search & retrieval easy to obtain printed copies of documents
- DBM: Small
- NONE YET: I will eventually use ORACLE since it has been adopted as the DBMS for Aleph
- PLAN TO USE RZ IN ZEBRA: Fast, tree structure, free, integrable into software.
- ORACLE, DBASE III: ORACLE: none. DBASE III : fast, simple, flexible.
- PATCHY: AVAILABILITY
- ENQUIRE: It imposes no structure on the system you wish to describe. It allows the user to browse without knowledge of what he is looking for. It requires no knowledge of keywords or magic names or numbers in order to find information

4.4 Bad points about system used

4.4.1 Oracle

- IT IS NOT ON THE COMPUTER SYSTEM THAT I LIKE TO USE SO I DON'T USE IT VERY MUCH.
- SQMENU, CALC, GRAPH NOT YET AVAILABLE ON VM
- I FEEL THAT THE ON LINE HELP COULD BE IMPROVED.
- NOT TOO FAST, TOO MUCH PAPER OVERHEAD ON PRINTING
- no - fast

- It gets heavy as soon as the application grows a bit
- Screen interface is too difficult to set up and change For Screen read Screen
- Not compatible with the PC software I have (with emphasis on the "I")
- everything
- TOO MANY PEOPLE CAN LOG IN SIMULTANEOUSLY (RESPONSE TIME SUFFERS)
- RESPONSE TIME
- no fast
- Difficult to transport data to other systems (very difficult for LONG data type). Licence costs make it hard to sell for occasional use on machines at home institutes.
- I have tried to learn little VM and have found it 'beginner – unfriendly' I hear from more experienced people that once one has overcome the initial problems that life becomes much easier
- oracle is not suited for high energy uses, especially in batch environment rz offers too little
- Very complicated to learn how to build an application. Slow response at times.
- Long response time (sometimes)
- Not enough man power for system development (e.g. Oracle Clusters)
- This also appears in the document. Some features on the VAX are not yet available on VM/CMS, e.g. screen painter.
- difficulties to write reports under Oracle. We are obliged to use Fortran or C or Cobol for production of lists.

4.4.2 KAPACK

- There seem to be a significant number of pitfalls for the unwary. One has to appreciate some of the internal details of KAPACK to run it without problems. For example, on the IBM, one has to pre-allocate disk space for ones KA-file. One therefore needs to be able to estimate how much space will be required. In practice, this number actually depends on the order in which the records are added to the KA-file and using a bad order can lead to a two- or three-fold increase in the space required. This is because the space gets fragmented. This situation could be rectified by providing a routine called say KAGARB which tidied up the KA-file in the case where records have been added in an unfortunate order. It would also be nice to have a mechanism by which a user of a database system could make number of elementary operations into one indivisible larger operation in such a way that the database was not left in a half-baked state if an update job ran out of some resource (e.g. CPU time, on the IBM) part way through. Whilst it may be true that one is always left with a valid (in the KAPACK sense) KA-file if this happens, the structure which the user may have built above KAPACK may well not be left tidy.
- No standard way of interactive usage (screen-layout etc.) No standard way to transport info to other computers No standard way of interactive usage (screen-layout etc.) No standard way to transport info to other computers
- few keys

4.4.3 ISIS

- OKAY: IT WORKS !
- No immediate printing. Complex print-formatting language. System restrictions preventing local modifications.
- Some of IBM's stupid sorts

4.4.4 Miscellaneous or multiple

- sql/ds, oracle: RATHER SLOW AND DIFFICULT TO LEARN FOR SIMPLE APPLICATIONS.

- ORACLE on CERNVM, SQL/DS on RAL VM: TERSE SUMMARIES NOY AVAILABLE
- NONE: IF WE CONSIDER HELP A DATABASE, THERE IS NO KEYWORD SEARCH. THE SAME FOR THE NEWS, AND CNL.
- INFOL ORACLE: MANUFACTURER'S DOCUMENTATION IS UNUSABLE REPORT GENERATOR IS RATHER POOR
- none so far: IF 6670 BREAKS DOWN NO APA ALTERNATIVE IS AVAILABLE. NO MACINTOSH LIKE GRAPHICS INPUT ON PERICOM GRAPHICS TO GKS INTO A DOCUMENT. NO REDIRECTION OF WYLBUR MAIL TO VM.
- MACINTOSH EXCEL: Slow and not universal
- WANG/SPS: RELATIVELY CLUMSY
- DOCUMENTREGISTRATIONSCHEME: Not stramlined throughout CERN Searching only works for documents in a particular registration scheme
- XEDIT: user interface
- DBM: Only one key
- ORACLE,DBASE III: ORACLE: old fashioned, heavy, slow, unfriendly, bulky, unflexible. DBASE III: none, but not official at CERN.
- PATCHIY: AWQUARDNESS
- ENQUIRE: It does not allow schemes to be interlinked. It does not connect to other schemes. It will not run in non - interactive mode.

4.5 Improvements requested

4.5.1 Oracle

- MOVE IT TO VM/CMS.
- GRAPHICS, DISTRIBUTED DATABASE TOO ALLOW FOR INSTANCE TO KEEP APPLICATION WHICH NEED NUMBER CRUNCHING ON THE IBM, THE OTHERS ON LEPDB VAX.
- Better screen interface setup, easier interface to script e.g. .print statements allowed inside lines of text.
- replacment
- MAX. NO. OF USERS PARAMETER
- RESPONSE TIME, GRAPHIC (SQL*GRAPH) FACILITY
- Being realistic, its not easy to see what can be improved that would have much impact on the major deficiencies
- hard to say
- Improve response, make application building easier, make the Fortran interface easier and more efficient and also compatible with GKS (not true today on VM)
- e.g. fully distributed data base not yet available.
- It's difficult to answer without discussion.

4.5.2 KAPACK

- Solution to the problems stated above and (I nearly forgot) a recommended way of including text in the database. Solution to the problems stated above and (I nearly forgot) a recommended way of including text in the database.

4.5.3 ISIS

- INCREASED DATA BASE (IE BEYOND PREPRINTS)
- Availability to all users at CERN in its interactive version, rather than the Wylbur or VM interfaces that are necessary at present.
- See above

4.5.4 Miscellaneous or multiple

- ORACLE on CERNVM, SQL/DS on RAL VM: PROVIDE TERSE SUMMARIES
- none: THE NEWS DOES NOT WORK WELL: IF YOU ASK FOR THE TITLES FOR A SET OF ITEMS SOMETIMES IT GIVES YOU NOTHING, OR A SUBSET OF WHAT REQUESTED. SHOULD BE FIXED.
- INFOL ORACLE: SEE PARAGRAPH ABOVE DISTRIBUTED DATABASES (PCS INCLUDED)
- none so far: 1) MACINTOSH GRAPHICS PACKAGE FOR PERICOM. 2) SEE MY CRITICS.
- MACINTOSH EXCEL: Better graphics output, availability in central computer facility.
- ISIS,KAPAC: I DONT KNOW MUCH ABOUT KAPACK. ISIS SEEMS FINE (THOUGH AGAIN, INTERACTIVE USE WOULD BE MUCH NICER).
- WANG/SPS: EASY CONNECTION WANG/SPS – CENTRAL COMPUTERS
- DOCUMENTREGISTRATIONSCHEME: A CERN – wide document registration scheme Ability to prepare documents with preferred local editor before entry
- XEDIT: For now, consider the whole system to be prettty rotten.
- DBM: Could be replaced by a real data base system.
- ORACLE,DBASE III: throw away Oracle.
- PATCHY: INTERACTIVE PATCH USING A COMMANDPROCESSOR (NOT ZCEDEX!!!!)
- ENQUIRE: The points above need fixing. I'll fix them, and a load more too ... when I get time. I get a feeling your'c going to ask about docuement retrieval systems seperately next. Lets see.

5. Miscellaneous Packages

5.1 Packages Used

There is a wide variety of packages mentioned in the replies. Those that are clearly of a non-MIS character have been left out.

- AMBASS,KERMIT ON PC/MAINFRAME
- Abel for PALs, ned for text editing on unix and edt on the vax.
- accounting data – pretty bad. Data is copied to Oracle by hand and
- Apollo bitmaps
- COBOL (4 times)
- CWEB
- DOCP – – when forced to, as well as ENQUIRE. Numerous snags.
- EXTERNAL DATABASES – SLAC SPIRES, ESA/IRS, TO BE EXTENDED
- elite
- GDDM/GRAPHIGS (NOT AT CERN, OF COURSE)
- HEPPI (INFOL)
- HTV to produce good quality graphics
- I HAVE TRIED TO USE ORACLE DATABASE , BUT DIDN'T GET FAR

- I do not use SASD methodology due to the lack of tools
- MAILBOOK, PCTRANS(UNSUCCESSFULLY!)
- MACINTOSH
- MMS
- NOTIS ON PRDEV
- Network packages like TCP/IP – DECNET.
- PROFS, PAY/PER ETC ON ADP
- RN on unix
- RUNOFF under VMS – – only for Documents received from outside
- SORRY, I USE SAS AS A CONCEPT, NOT WITH COMPUTER TOOLS...
- SYMPHONY ON PC
- sorry but i must now stop. Perhaps an continue the inquiry later.
- sorry we use PERT
- Set of WYLBUR EXECS files for documentation retrieval.
- THE SCRIPT PACKAGES HERE.
- TRANSCRIPT (ADOBE)
- TEX
- The worst interface is to the ADP department although I believe this then manipulated (forgot about that use of Oracle above).
- TEX
- Unix tools like "calendar" and "ned" are fine.
- VERSATEC,GDD3
- WILL START TO USE SASD, ADAMO AND ORACLE
- will improve – I use Prints and Lists exec files on Wylbur to get my
- GKS (22 times)
- GD3 (4 times)
- HBOOK/HPLOT (14 times)

5.2 Wish were installed

5.2.1 "Presentation" Graphics

- WOULD LIKE TO HAVE GRAPHICS INTERMIXED WITH TEXT ON THE APA6670
- SOME IMMEDIATELY USABLE GRAPHICS PROGRAMS SUITABLE FOR SCIENTIFIC USE, E.G. SLAC'S TOPDRAW PROGRAM OR SKETCH EXEC WOULD GREATLY SPEED UP DOCUME PREPARATION AND PRESENTATION OF RESULTS. TO DRAW A SIMPLE GRAPH OF A FEW Y POINT VS. A FEW X POINTS, IT SHOULD NO BE NECESSARY FOR US TO WRITE, COMPILE, DEBUG AND RUN A WHOLE FORTRAN PR
- PROGRAMS FOR PRODUCING GRAPHICS OUTPUT ON HIGH QUALITY LASER PRINTERS AR URGENTLY NEEDED.
- A BETTER PROGRAMM FOR GRAPHIX
- SIGMA
- TOPDRAW
- CHART (GRAPHICS) EDITING
- topdrawer

5.2.2 Text processing software

- A WYSIWYG EDITOR
- Interleaf

- SGML
- I've mentioned a WYSIWYG word processor.
- ABOVE ALL, UNDER THIS HEADING, I WOULD LIKE TO SEE TEX INSTALLED AT CERN IF IT IS, IT IS ESSENTIAL THAT IT BE KEPT COMPATIBLE WITH THE REST OF THE WORLD. I.E. ONE OF THE EXISTING MACRO PACKAGES LIKE AMSTEX, PHYZZXZ OR LATEX SHOULD BE TO PRODUCE DOCUMENTS IN THE CERN STYLES (THIS IS VERY SI TO SET UP) AND THE PLAIN TEX PACKAGE SHOULD ALWAYS BE AVAILABLE. THERE IS ABSOLUTELY NO NEED TO INVENT SOME CERNTX PACKAGE AND IT WOULD BE VERY DAMAGING TO DO THIS. ANOTHER POINT IS THAT CERN SHOULD USE THE STANDARD COMPUTER MODERN FONT WHICH, EVEN IN THEIR MOST BASIC VERSION (WHICH COMES WITH PLAIN TEX) WILL SATISFY ALL THE REQUIREMENTS OF CERN USERS. SOME EXTRA FONTS (FROM THE SAME FAMILY) CAN BE USED FOR TRANSPARENCIES A PERHAPS, SETTING PHYSICS PAPERS IN 12 POINT SIZE.
- TEX (16 occurrences)
- TEX AND/OR TROFF
- PLEASE HURRY WITH DOC SCHEME, FOR VM.
- SPELL CHECKER
- FORM EDITING

5.2.3 Office Automation Tools

- VMTELEX
- TEA MAKER
- FACILITIES FOR LINKING SPREADSHEETS, DATABASES ETC.
- PLANNING PACKAGE IN THE STYLE OF MACINTOSH THINKTANK OR MORE
- UNIQUE (ADMINISTRATIVE APPLICATIONS GENERATOR)
- How about:
 - Voice mail
 - Interoffice memos, management committee minutes, etc. etc.
 - seriously distributed by e-mail.
 - An excellent calendar and meeting – booking system used by all of DD and even all of CERN.
- I would like a good package for calendar control. Although the old diary in the pocket takes a lot of beating.
- An electronic page style MULTIPLAN.

5.2.4 Database interfaces

- GRAPHICS INTERFACE TO ORACLE
- SPREADSHEET INTERFACED TO ORACLE
- SAS INTERFACED TO ORACLE
- WORD PROCESSOR INTERFACED TO ORACLE
- ORACLE, WHICH CAN BE DISTRIBUTED OVER NETWORKS

5.2.5 Miscellaneous

- BETTER VERSIONS OF TERMINAL HANDLERS / KERMIT
- BETTER ACCESS TO VAXES (FROM VM)
- COMPLETE GKS
- SLAC HAS BEEN USING NOMAD2 WITH GOOD SUCCESS, BUT I PERSONALLY DO NOT IIA HOWEVER, IF YOU WOULD LIKE TO CONTACT SOMEONE AT SLAC ABOUT IT, TRY DENN WISINSKI. HIS COMPUTER ID IS DZW AT SLACVM.

- A GOOD FILE TRANSFER FACILITY PC/MAINFRAME.
- MORE MACINTOSHES
- IT WOULD BE USEFUL TO HAVE A COMPARISON (COMPATIBILITY) OF THE VARIOUS SYSTEMS AT CERN IN ORDER TO BE ABLE TO EVALUATE ONE AGAINST THE OTHER(S)
- I AM NOT REALLY INTERESTED: I HAVE 3 COMPUTERS IN MY OFFICE!
- CAD (BOTH MECHANICS, ELECTRONICS AND MICROWAVE)
- SYMBOLIC MATHEMATICS
- EXPERT PROGRAM CREATING PACKAGES
- A GOOD (!) SOURCE CODE MANAGER (HAVE TRIED HISTORIAN BUT GAVE UP BECAUSE IT'S USE WAS NOT ENFORCED AT THE GROUP/DIVISIONAL/LAB LE
- LISP
- MACSYMA
- SASD TOOLS (I THOUGHT THAT WAS WHAT YOU MEANT BY SAS ABOVE!)
- ORACLE.
- real gks
- DSEE (Apollo)
- A source code control package for either unix or vms.
- Structured design aids for either unix or vms.
- BETTER VERSION OF GKS
- dec/cms
- dec/mms
- OSI protocols. Unix shell on VMS.
- An upgrade of ENQUIRE (a BR DB for general project description)