MINUTES OF THE COMMON SOFTWARE PROJECTS MEETING

Minutes of the meeting held on 4.3.86

Time: 14:03

Present :

Barcelona	: J.M.Crespo, E.Fernandez,R.Miguel,S.Orteu
Bari	: G.Catanesi,F.Ruggieri
Beijing	: Z.Qian,T.Wang
CERN	: J.Boucrot,J.Bunn,P.Burkimsher,T.Charity,H.Drevermann,
	R.Fantechi,A.Farilla,A.Ghiselli,F.James,G.Kellner,
	R.McClatchey,D.Notz,P.Palazzi,F.Ranjard,W.v.Rueden,
	W.Tejessy
Clermont	: M.Bardadin,D.Pallin
Copenhagen	:
Dortmund	:
Ecole Polyt.	: U.Berthon,M.Rumpf,I.Videau,H.Videau
Edinburgh	:
Frascati	: G.Capou
Glasgow	: A.Flavell,D.Martin
Heidelberg	: O.Braun,A.Putzer
Imp.College	: R.Beuselinck,R.Campbell,J.Sedgbeer
Innsbruck	:
Lancaster	: C.Bowdery,A.Finch
Mainz	: J.Knobloch
Marseille	: J.Albanese,A.Bonissent
MPI−Munich	: G.Stimpfl
Orsay	: G.de Bouard,T.F.Grivaz
Pisa	: F.Fidecaro,G.Sanguinetti
Rutherford	: D.R.Botterill,R.Clifft,S.M.Fisher,M.Talebzadeh
R.Holloway	: M.G.Green,A.K.McKemey,M.Landon,T.Medcalf
Saclay	: B.Bloch−Devaux,O.Callot,D.Lloyd Owen,J.F.Renardy
Sheffield	: S.Wheeler
Siegen	: E.Neugebauer
Trieste	:
Wisconsin	: H−J.Trost

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1. INTRODUCTORY REMARKS

G.Kellner   −

    Mr. Fabricio Gagliardi has got a new position in DD and will therefor no longer be chairman of this meeting.

2. USER INTERFACE PACKAGE   − A.LACOURT / C.ARNAULT

The package has been developped by the ALEPH Online Group and is available now. It supports message display, operator dialogue and control from menues for VT100 terminals under VAX/VMS (version 4.2 and above). A detailed description can be found in Aleph−Note 86−27.

    The demonstration in colour following the speech showed how the windows on the screen could be used.

    Discussion.

Can it be used over a network ? — Yes, the demo used a 4800 baud line, but VMS 4.2 is needed for efficient use of the line.

Can it be generalized, to have an interface for all interactive applications ? — Difficulties arise on IBM/VM because of the different screen management (ISPF), but on VAXes it can be easily used for any package written in FORTRAN.

Is it possible to go from menu mode to command mode ? — Yes, it is foreseen to change, even at run time.

3. FIRST IMPLEMENTATION OF ASSET — R.FANTECHI

R.Fantechi gave an overview of the work, which started in Jan.86 .

VMS

Improvements of LOGIN and the NEWS facility, clean—up of user accounts, collection and documentation of useful common tools.

VM

Although all labs with VM use a common operating system, the differences are growing more and more, because of the numerous modifications, enhancements, additional programs etc. introduced at CERN and RAL. It was tried, to find out a useful subset for ALEPH, which can be realized in all labs with VM.

To improve the mailing service, the new mailing system EAN (X400 standard) with gateways to EARN, DECNET and JANET will be proposed. The name of the virtual machine in CERNVM will be MINT.   DD is discussing a HEP—wide licence from Brit. Columbia Univ.(Canada) for EAN.

To enhance file transactions (without login to CERNVM), one should use the GONE exec.

Different solutions for an efficient connection of VXCRNA and CERNVM are under discussion.

A documentation scheme for ALEPH could be built using work started by DD under the keyword DDDS.

G.Kellner   —
               MEDDLE wants to know what is wanted from the LEP—experiments
               (file transfer, message serveices, login etc.). Ricardo shall find out what we need.

F.Ranjard   — I need a fast switch between an IBM/VM—session and a VENUS—session, a
               'bridge' (for some minutes) would be helpful.

von Rueden   — Switching via Index—lines has better performance !

I.Videau   — Why EAN ? Do we all have to buy it ?

4. NADIR : NEW ALEPH DIRECTORY — Z.QIAN

The ALEPH directory has been maintained until now by a program using WYLBUR exec files and SCRIPT. It stores information about the ALEPH collaboration and produces lists, mailing stickers etc. As WYLBUR is being phased out, the project NADIR has been started at Feb. 86.

The new program will make use of ADAMO tools and of SQL+ (ORACLE) for the dialogue with an operator.

Several questions arose in the discussion (P.Palazzi). As the latest version 5 of SQL+ is full of bugs, it may not be a good choice. The connection to the new mailing service EAN was another point.

P.Palazzi   — Please inform us, which features do you want incorporated in NADIR for mailing
               services. (automatic update information etc.)

5. BUILDING 32 ("Z") – G.KELLNER

ALEPH can move in end of April 86. There will be telephones, butno new telephone numbers are available till Sept.86 when the new digital telephone exchange will be installed hopefully.
Terminal connections will be provided in two phases – for details see the copies attached.

G.Kellner — Please fill in the form outside Ariella's office for requests on installing (existing) Index – lines. For new connections contact the coordinator E.Pagiola.

6. PROPOSAL "STANDARD SUBROUTINES" – G.KELLNER

The proposal (Aleph Note 86 – 23) was asked for ratification. The function LOCF cannot be abandoned, because every memory manager (BOS also) makes heavily use of.
F.Ranjard reported on problems with the new functions IFROMC and CFROMI in GALEPH.
P.Palazzi asked for implementing that rule of standard set of subroutines in FLOPPY. – Yes it can be easily introduced (F.James).

7. FORTRAN 77 PROGRAMMING CONVENTIONS – G.KELLMER

The proposed updates to the programming conventions of Aleph note 85 – 136 were presented.
"Implicit none" or "do not override standard FORTRAN type" ? After some discussion it was agreed, not to decide now until more experience has been made with 'non – standard' code.
"do not mix character with other type in COMMON" . Because of our strong binding to ANSI standard FORTRAN, it was agreed not to change that rule.

G.Kellner — Use of FLOPPY is obligatory. Non – conforming code will be returned to the sender !
Conventions on comments, subroutine headings etc. were urgently demanded.
On request, J.Knobloch reported shortly on graphics recommendations from the meeting today. GKS – 3D will be the new standard, but the way to the more extended PHIGS standard (not ready now) should not be abandoned.

O.Braun   1 April 1986

— Package —

Available now : 03 - Mar - 1986

- — Documentation

- — Library   `UPI.OLB`

- — Include files with
    - — Error status returns
    - — Declaration of all available entry points as
      INTEGER FONCTIONS

         `UPI . INC`

- — Examples

     `SHOW . FOR`   (Multi menu application)
     `DEMO . FOR`   (Auto-training program
                      for Fortan Calling)

- — Everything is on the directory:

     `VXALFB :: DISK$USER : [ONLINE . MENU]`

Needs

- Use of new standard terminals (VT100 Compat.)
- Use of structured programming
  (try if possible to be application independant)

Tools – Methods

- Explicit use of dedicated software for VAX/VMS and VT100 compatible terminals.

- Use of VAX FORTRAN (V4) with specific Online conventions.

- Use of VAX/VMS Run Time Library
  in particular:
  - SMG package for Screen primitives
  - Mail box mechanism

User Interface Package

Developped by : Aleph Online Group

C. ARNAULT   J. BOUROTTE   A. LACOURT

Purpose

Define a new user interface for the Aleph Online environment.

We try to satisfy the needs of Online and Offline users

Aims

- Access from any console to several process.
- Real time updating of screens according to process states
- Production of a user-friendly and
  easy-to-operate package

Philosophy

- Based on association of virtual windows (defining regions of the physical screen) to pages of menus.

  - Tree structure "a_la_ZCEDEX".

  - Free declaration of menus.
      (at process startup time or dynamicaly)

- Multiple tree structure allowed.

- Possible use of direct action routines to perform operator requests. (or use "Computed GOTO")

- Possible automatic updating of variables related to parameters.

- Interactive editing session local to the package (Selection of the command, input of parameter values) with no participation in the user code.
      (Return of terminal commands, and of valid parameters only)

- Possible concurrent execution of user code and operator control.

- Dynamic edition of menus on screen -

<u>FIRST ASSET TOPICS</u>   R. Fantechi
                                           4-3-86

- My work started in January

- Some priorities decided:

  1) WORK on VMS Problems

  2) WORK on VM Problems

  3) WORK on ALEPH Directory ⟶ ZX QIAN

  4) Look at a suitable documentation scheme

- Several contacts with DD people, to understand
  what is moving about VM and VMS.

- Interaction with ALEPH VAXes System Managers
  and with VENUS TASK FORCE for point 1)

- Interaction with ALEPH VM users to understand
  problems and needs.

VMS WORK

- Faster SYLOGIN command file on VXALFB by C. Arnault as soon as possible extend to other machines

Some improvements:

- Keep away from standard LOGIN symbols that are not frequently used ⇒ put in user LOGIN if they want them.

- Think about faster SYSTARTUP file.

- CLEAN-UP OF SYSUAF file on ALEPH VAXES:

  - DELETE OBSOLETE ACCOUNTS (saving files !)

  - ADD ACCOUNTS WHERE THEY ARE MISSING

  - CORRECT TYPING ERRORS, SMALL DIFFERENCES .....

  - WE NEED NOW ADDUSER AND REMUSER WORKING PROPERLY

- COLLECTION AND DOCUMENTATION OF USEFUL COMMON TOOLS :

  - SYSTEM USED : TO, USERS, AUTOSCHED etc.

  - USER USED : FLOPPY , etc. MMS.

PLEASE SIGNAL YOUR TOOLS IF THEY ARE USEFUL TO EVERYBODY.

- TESTING OF A NEW "NEWS" PROGRAM ON VENUS (by F. CARMINATI)
  FEATURES:

  - FASTER   use indexed files.

  - Group and private news implemented

Agreement to suggest and implement requested features.

to be used for:
- Meeting news
- Software update news   } to be sent also to remote labs.
- Group news   (SEE Below)

VM Work

COMMON PROBLEMS FOR OUTSIDE AND INSIDE USERS:

1 - BAD COMPATIBILITY BETWEEN EXECS DEVELOPED AT CERN AND IN OTHER LABS.

2 - NEED FOR A STANDARD MECHANISM TO RECEIVE INFORMATION ABOUT SOFTWARE FROM CERN.

3 - NEED FOR AN EASY ACCESS TO MOST RECENT SOFTWARE.

① STEPS TOWARDS A SOLUTION:

- COLLECT AS MUCH AS POSSIBLE INFORMATION ABOUT LOCAL ENVIRONMENTS

- SELECT BEST TOOLS AND DEFINE A SET OF IBM + CERN + ALEPH COMMON SOFTWARE TO BE INSTALLED IN EACH LAB WITH THE MINIMUM SYSTEM PROGRAMMING EFFORT

- DEFINE IN EXEC FILES SITE-DEPENDENT VARIABLES AND ASSIGN THEM LOCAL VALUES (LIKE LOGICAL NAMES ON VAX)

- TEST THIS SCHEME WITH GALRUN EXEC

② PROPOSAL:

- START A FIRST PROTOTYPE SERVICE USING EAN AND CERN GATEWAYS TO DELIVER INFORMATIONS TO ALL SITES ON EARN, DECNET, JANET. NO REPLY CAPABILITY IS NEEDED.

- EAN (MINT) WILL BE ANNOUNCED OFFICIALLY AT CERN IN ~ 15 DAYS.

③ DIRECT LOGIN AT CERN OFTEN DIFFICULT. A DISCONNECTED VIRTUAL MACHINE DRIVEN BY GONE, AUTOSTARTED AT SYSTEM STARTUP CAN BE USEFUL.

ANYWAY THE PROBLEM OF LOGGING ON CERNVM FROM THE OUTSIDE MUST BE DISCUSSED.

to discuss also the use in every lab of IOS3270 (IBM DIOF cost ~ 2000 SFR)

COMMON ITEMS:

- MAY WE PROPOSE THE PURCHASE OF EAN to EACH LAB?

  DD is DISCUSSING a HEP-wide LICENSE (like HISTORIAN)

- WHAT DO WE WANT FOR AN EFFICIENT CONNECTION

  BETWEEN VXCRNA AND CERNVM ?

  → PROPOSALS FOR MEDDLE

  ACTUAL SITUATION

  - X.25

  - TCP/IP

  - JENET (ONLY TRANSPORT TRANSACTION)

  - MAIL USING EAN on VXCRNA, MAIL on CERNVM.

  TEST OF TCP/IP PERFORMED DURING FEBRUARY (R.F.)

- DECNET / VM by INTERLINK

  - EXPENSIVE (120.000 SFR)

  - NOW ONLY FILE-TRANSFER AND ~~REMOTE~~
    TASK TO TASK COMMUNICATION

  - NO REMOTE LOGIN

- DECNET / SNA Gateway by Digital

  - to allow every VAX at CERN (and
    outside if you want) to access CERNVM
    in a DECNET fashion.

- AT THE END OF THE YEAR PROBABLY
  CERNET FILE MANAGER ON VM.

DOCUMENTATION SCHEME.

I have followed work in AA to define what they call <u>DDDS</u>

<u>Now</u>:

- A SET OF SPECS FOR DDDS

    - HIERARCHY OF DOCUMENTS
    - SUPPORT OF VARIOUS TEXT FORMATTERS
    - MULTI PART DOCUMENTS

- A PROTOTYPE WORKING ON VM/CMS (REXX file) WHICH IMPLEMENTS A SUBSET OF SPECS

<u>NEAR FUTURE</u>:

- A REFINED PROTOTYPE USING REXX on VM WITH FULL FUNCTIONALITY (End of April)?

<u>LONG TERM</u>:

- PORTABLE VERSION FOR VM and VMS WITH FULL FUNCTIONALITY.

PROBLEMS: NO MAN POWER

FOR ALEPH AN IMPLEMENTATION USING ORACLE COULD BE LINKED TO THE ALEPH DIRECTORY.
WHY NOT?

WHY A DOCUMENTATION SCHEME?

- ALEPH papers and notes

- Program documentation

- Searching via keywords documents

- Archiving information on every document
(SCRIPT, MAC PAINT, TRANSPARENCIES, MANUALS or
PAPERS coming from OUTSIDE)

NADIR, the New Aleph DIRectory PROTOTYPE

(started 1. Feb. 1986)

F. Bliu
Z.Y. Qian ← presented by
P. Palazzi

- The old Aleph Directory

- Architecture of the New Directory

  - From ADAMO DDL
  - To ORACLE tables
  - Report generation using SQL +
    or HLI (from FORTRAN)
  - Query/Update using IAP

- Discussion about possible extensions
  (this is the reason for the presentation)

The old Aleph Directory

- written by F. Blin

- using { WYLBUR exec files / Script } text processing system

- stores information about the Aleph collaboration :
  People, Institution, Mailing lists, Telephone.....

- produces — a printed directory with useful information
  - mailing stickers } for the secretariat
  - mailing lists

but
- WYLBUR is being phased out
- have made system, difficult to upgrade

so
→ New Aleph DIRectory

ADAMO

ORACLE, a RELATIONAL DATA BASE MANAGEMENT Sys
available on the CERN Central Computers
(Version 5 β test)

OPERATOR

Dialogue

IAP

USER's view
of the system

HLI

Script

Printed Output
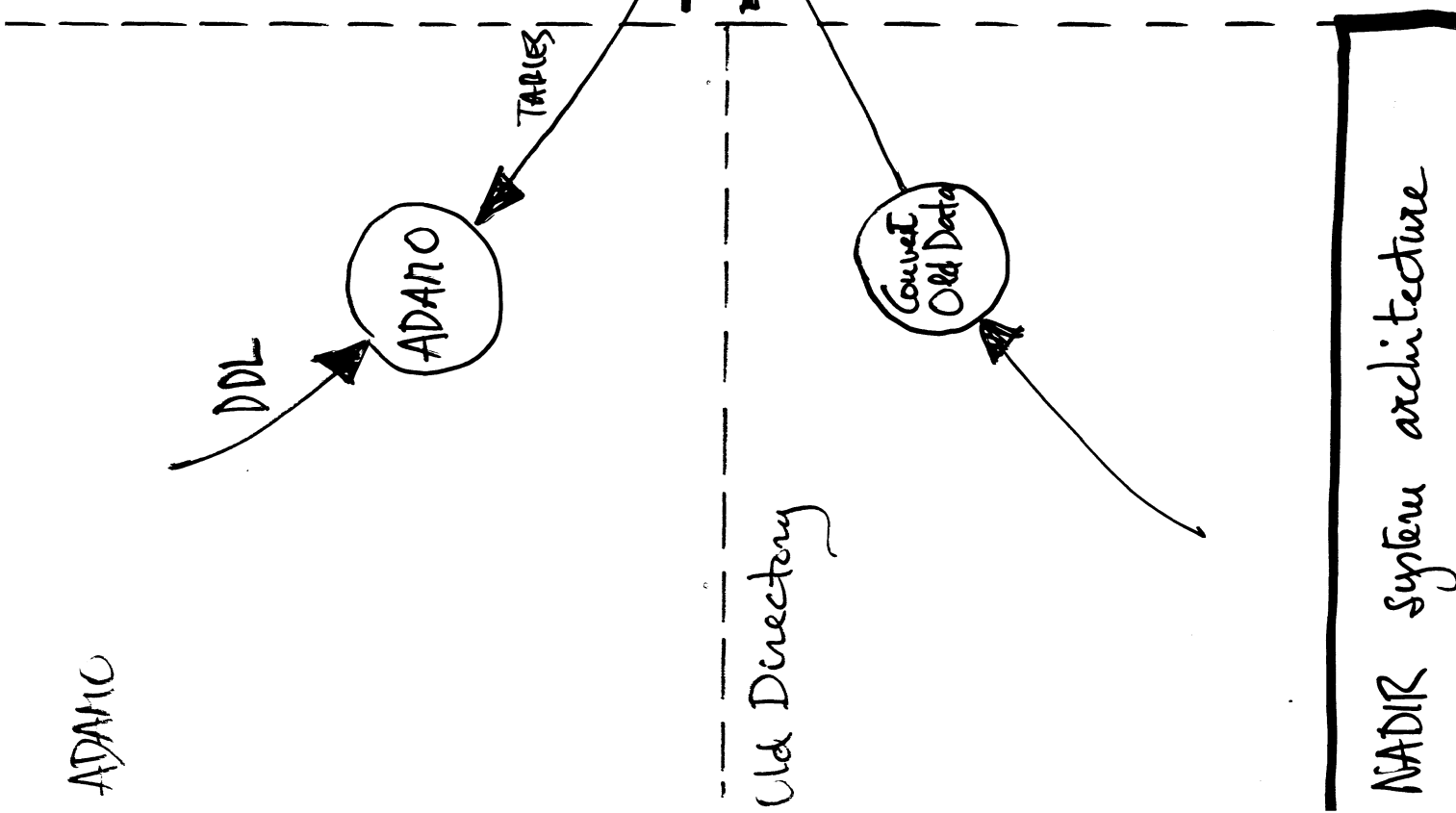
book
mailing lists
strikers
...

DB

SQL+
UFI

TABLES

DDL

ADAMO

Old Directory

Convert
Old Data

NADIR System architecture

NADIR, New Aleph Directory, Entity-Relationship diagram

F.Blin, Z.X. Qian, P.Palazzi

3 mar 1986

Function

Division

MaiList

Perform

Member

Subscrip

Location

Institute

JobType

Place
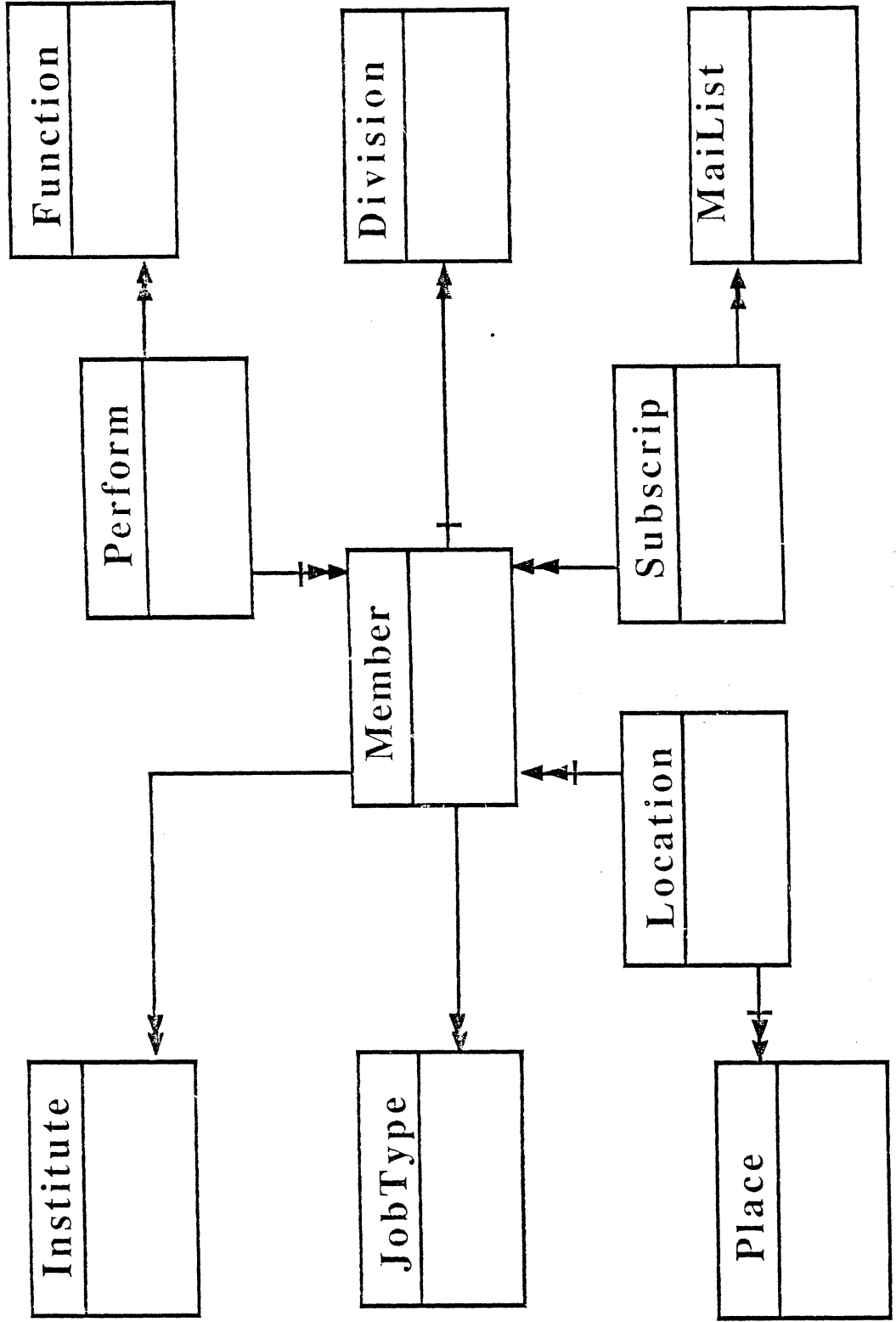
DDL, the ADAMO input

```
SUBSCHEMA Nadir

: 'New Aleph DIRectory E-R description'

AUTHOR   'F. Blin, Z. X. Qian, P. Palazzi'
REVIEWER 'W. G. Moorhead', '1'
VERSION  '1'

DEFINE ATTRIBUTE

Address(6)    = Adline    : 'A full address';
Adline        = CH32      : 'One line of an address';
AtCern        = LOGI      : 'True if the member is at CERN';
Beep          = INTE      : 'Beep number at CERN';
                            [1000,9999]
CernTel       = CH32      : 'one or more CERN telephone numbers,
                             separated by commas';
Definition    = CH32      : 'Definition of a function, e.g. DAQ contact';
Fax(2)        = CH64      : 'A vector of TeleFax numbers';
Fname         = CH15      : 'First name of a person';
GvaAdd(4)     = Adline    : 'An address in the Geneva area';
GvaTel        = Tel       : 'Phone number in the Geneva area';
Job           = CH16      : 'job type, eg physicist, secretary, technician';
JoinDate      = DATE      : 'When a member or an institute joins Aleph';
HomeAdd(4)    = Adline    : 'An address at home';
HomeTel       = Tel       : 'Phone number in the Geneva area';
LabTel(2)     = Tel       : 'Member telephone at his Lab, direct or not';
LIName(3)     = CH64      : 'Long Institute Name, e.g. Rutherford ...';
LLName        = CH32      : 'Long mailing List Name';
Location      = CH16      : 'Location of a place, e.g. 017-R-003';
MailCern      = LOGI      : 'true if the member receives mail at CERN';
ModDate       = DATE      : 'When member or Institute record is modified';
Name          = CHA4      : 'a short name';
Ndesks        = INTE      : 'number of desks in a place';
PaidCern      = LOGI      : 'true if the member is payed by CERN';
PostName      = CHA8      : 'before the name for postal address, eg Dr.';
QuitDate      = DATE      : 'When a former member or Institute quits Aleph';
Sex           = CHA4      : 'Sex of a person';
SIName        = CH32      : 'Short Institute Name, e.g. RAL';
SLName        = CHA8      : 'Sort mailing List Name';
Sname         = CH32      : 'Surname of a person';
Tel           = CH64      : 'A telephone number, including area code etc.';
Telex         = CH64      : 'A telex or TWIX number';
Type          = CHA4      : 'Type of place';

DEFINE ESET

Division   = (Name)
           : 'A CERN Division, e.g. EP';

Function   = (Definition)
           : 'A function in Aleph that can be performed by a member';

Institut   = (JoinDate,QuitDate,ModDate,SIName,LIName,Address,
```

```
@TIN> LIS-DAF
   Table : .DAF
RID NAME          DIR(1)        DIR(2)                    LUN  ACC  NLEVE
                                                          ---  ---  -----
 "  NADIR.TAB     [PALAZZI.ADAMO.N ADIR]                  31   R      1


@TIN> PRI-DAF NADIR.TAB

  Table : .DAFTAB
  Count = 12
  Index : RID          +RID
 *Index : IDFKEY       +KEY(1)
  Index : IDFZBK       +ZBKEY
  Printed along : IDFKEY

RID :ZBKEY:TNAME        :STAT:COUNT:KEY(1)
 ---:-----:-------------:----:-----:--------
  1 :  1 :.DIRECTORY    :OLD :  12 :.dir
  2 :  2 :.SCHEMA       :OLD :  69 :.sch
  3 :  3 :Division      :OLD :   0 :Division
  4 :  4 :Function      :OLD :   0 :Function
  5 :  5 :Institut      :OLD :   0 :Institut
  6 :  6 :JobType       :OLD :   0 :JobType
  7 :  7 :Location      :OLD :   0 :Location
  8 :  8 :MaiList       :OLD :   0 :MaiList
  9 :  9 :Member        :OLD :   0 :Member
 10 : 10 :Perform       :OLD :   0 :Perform
 11 : 11 :Place         :OLD :   0 :Place
 12 : 12 :SubScrip      :OLD :   0 :SunScrip


@TIN> FET-DAF
  DAFile name    [A9]    = NADIR.TAB
  Table name     [A15]   = Place
  Key            [A]     = /Place


@TIN> DES-TAB Place
   Table : Directory
NORD NAME        TYPE  COLNO CNAME       CTYP CFMT
                                         ---- ----
  1 Place         :        1 ID         SNUM I4
  "    "          :        2 Location   CH16 A16
  "    "          :        3 Type       CHA4 A4
  "    "          :        4 Ndesks     INTE I5
  "    "          :        5 CernTel    CH32 A32
```

NADIR tables seen from ORACLE

```
● VMS> ufi
ORACLE Utilities, Copyright (c) 1979, 1980, 1981, 1982, RSI

UFI version 3.5 - on Tue Mar  4 09:44:22 1986

Connecting to: ORACLE V4.2.2 - Interim Release

Enter user-name: alephdir
Enter password:

Cannot read command file "DISK$ALEPH:[PALAZZI.ADAMO.TIN]LOGIN.UFI"
● UFI> SELECT * FROM tab
   2 ;


TNAME                    TABTYPE   CLUSTERID
----------------------   -------   ---------
SUBSCRIP                 TABLE
PLACE                    TABLE
PERFORM                  TABLE
MEMBER                   TABLE
INSTITUT                 TABLE
MAILIST                  TABLE
DIRECTORY                TABLE
FUNCTION                 TABLE
DIVISION                 TABLE
LOCATION                 TABLE
JOBTYPE                  TABLE
SCHEMA                   TABLE

12 records selected.


● UFI> DESCRIBE place
 # size csize type          name
 1   22   40  2 numeric      ID
 2   16    1  1 character    LOCATION
 3    4    1  1 character    TYPE
 4   22   40  2 numeric      NDESKS
 5   32    1  1 character    CERNTEL
```

```
c          PROGRAM    mailist
c............................................................
c
c                  produce mailing list tables for each Institute
c                  Z.X Qian, feb 1986
c
c............................................................
c
           IMPLICIT NONE
c
           EXEC SQL INCLUDE sys$oracle:sqlca.for
c
           EXEC SQL BEGIN DECLARE SECTION
c
           INTEGER*2  memid,mailid
           CHARACTER*6 usname,psword
           CHARACTER*35 name
c
           EXEC SQL END DECLARE SECTION
c
           CHARACTER*29 cross
           INTEGER*2 endfet,in,out,point,i,last,member,list
           CHARACTER*29 head(6)/'|A|T|T|T|S|D|E|H|B|L|M|T|C|M|',
          +                     '|L|P|P|P|O|A|M|A|M|A|C|R|O|I|',
          +                     '|E|C|C|C|F|T|C|D|L|Y|A|I|M|N|',
          +                     '|P|O|E|C|T|A|A|C|I|O|R|G|P|I|',
          +                     '|H|E|L|A|W|C|L|A|N|U|L|G|R|V|',
          +                     '|N|T|E|L|R|Q| |L|E|T|O|R|O| |'/
c
           PARAMETER (endfet=1403,in=5,out=16,last=999999)
c
c----------------------------------------------------------------
c
c open Oracle data base
c
           usname = 'nadir'
           psword = 'zenith'
c
           EXEC SQL CONNECT :usname IDENTIFIED BY :psword
c
c define recovery action
c
           EXEC SQL WHENEVER SQLERROR GOTO 10000
c
c open output file
c
           OPEN(unit=out,name='mailist.lis',type='new')
c
c write header
c
           WRITE(out,'(a)') '                    --------------------
          +----------------------------------------------------'
           DO i=1,6
           WRITE(out, 700) head(i)
700        FORMAT(11x,'|
          +           a)
           ENDDO
           WRITE(out,'(a)') '                    --------------------
          +----------------------------------------------------'
c
c declare cursor for member name and division
c
           EXEC SQL DECLARE c1 CURSOR FOR
          1     SELECT member.sname||' '||member.fname||' '/'||
          1            division.name,member.id
          1     FROM member,division
          1     WHERE member.division=division.id(+)
          1     ORDER BY sname
c
c declare cursor for mailing choices for this member
c
           EXEC SQL DECLARE c2 CURSOR FOR
          2     SELECT mailist
          2     FROM subscrip
          2     WHERE subscrip.nember = :memid
          2     ORDER BY mailist
c
           EXEC SQL OPEN c1
c
c loop on members of this Institute
c
           DO 110 member = 1, last
           cross(1:29) = '. | | | | | | | | | |.| | | |'
           EXEC SQL FETCH c1 INTO :name, :memid
           IF(sqlcde .eq. endfet) GOTO 200
c
           EXEC SQL OPEN c2
c
c loop on mailing lists
c
               DO 111 list = 1,last
                   EXEC SQL FETCH c2 INTO :mailid
                   IF(sqlcde .eq. endfet) GOTO 100
                   point = mailid*2
                   cross(point:point) = 'x'
111            CONTINUE
c
c write out line with crosses
c
100        WRITE(out,300) name,cross
300        FORMAT(11x,'|',a,5x,a)
110        CONTINUE
c
c close cursors
c
200        EXEC SQL CLOSE c1
           EXEC SQL CLOSE c2
c
c write bottom line
c
           WRITE(out,'(a)') '                    --------------------
          +----------------------------------------------------'
c
c close output file and stop
c
           CLOSE(unit=out)
           STOP ' normal end'
c
c----------------------------------------------------------------
c
10000   WRITE(6,2000) sqlcde
2000    FORMAT (' oracle error  code is ',i5)
        STOP ' abnormal end'
```

Output
of a report subroutine

	A/L/E/P/H/N	T/P/C/D/I	T/P/C/C/I/T	I/C/O/E/L	T/C/F/D/L	S/O/T/A/I/L	D/A/I/C/R/I	E/M/A/L/I	H/A/C/A/Q	B/M/L/Y/I	I/A/I/O/L	L/C/D/L/I/T	I/R/A/I/E/O	M/I/C/N/T/R	T/O/L/U/I	C/M/I/G/R	M/I/R/I/V
BUDDE Reinhard /EF	x	x				x	x	x	x	x	x	x	x	x	x	x	x
MARROCCHESI Pier Simone /	x	x				x	x										
QIAN Zuxuan /EP																	
VERWEIJ Hendrik /EP	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
VIDEAU Henri /																	
VIDEAU Ioana /																	
WU Weimin /																	

AN IAP SCREEN

European Laboratory for Particle Physics
New Aleph Directory

ALEPH Collaboration   MAGYR

                        (MEMBER >   ID CHECK

        SURNAME Name _____

           laboratory _____

        Geneva address _____
                       _____
                       _____
                       _____

        Geneva Telephone _____

Char Modes insert   Count: *0

INSERTION USING AN IAP SCREEN

CERN   European Laboratory for Particle Physics
ALEPH collaboration   NADIR   New Aleph DIRectory

< MEMBER >

ID	
1	CHECK
2	BARCELONA
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6	CLERMONT-FERRAND
7	COPENHAGEN
8	DEMOKRITOS
9	DORTMUND
10	ECOLE POLYTECHNIQUE
11	EDINBURGH
12	FLORIDA
13	FRASCATI
14	GLASGOW
15	HEIDELBERG
16	IMPERIAL COLLEGE
17	INNSBRUCK
	LANCASTER

SURNAME Name FALAZZI   Paolo

Laboratory 99.

Geneva address

Geneva telephone

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END OF INSERTION

CERN
ALEPH collaboration   NADIR   European Laboratory for Particle Physics
                                                              New Aleph DIRectory

                     < MEMBER >

                                        ID   CHECK

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Geneva address Chemin des Coquelicots

               CH-1299 COLOGNY

               GENEVE

Geneva telephone 31.41.59

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STATUS of the PROTOTYPE

- partial implementation of all components:
  - ADAMO DDL to ORACLE
  - Conversion from Old Data
  - some IAP Screens
  - HLI Fortran Report Generator
  - SQL + tests on ORACLE 5 (bugs!)

DISCUSSION

- is ORACLE the right choice ?
- extension of functionality:
  - meeting organization
  - electronic mail
  - manage documents
  - networks
  - ...
- man (woman) power?

BUILDING 32 ("Z")

2/3/86
G.K.

~250   OFFICES
52   ALEPH

TELEPHONES and TERMINAL CONNECTIONS

EP Coordinator : S. PAGIOLA, tc. 2.103

- BUILDING READY FROM MID-MARCH
- BEGIN APRIL → MOVE IN L3, UA1
⇒ END APRIL → MOVE IN ALEPH

TELEPHONES:

NO NEW TELEPHONE NUMBERS AVAILABLE

⇒⇒ IF YOU WANT A TELEPHONE THAT WORKS
YOU MUST BRING WITH YOU YOUR CURRENT #

- DIGITAL TELEPHONE EXCHANGE WILL BE INSTALLED
(SAME SYSTEM AS FOR LEP)

⇒ BY AUGUST-SEPTEMBER HARDWARE SHOULD BE
AVAILABLE AND DIGITAL TELEPHONES INSTALLED
(SPECIAL CALLING SEQUENCE)

TERMINAL CONNECTIONS :

- FORSEEN TO HAVE 2 TERMINAL CONNECTIONS, 1 TEL.
PER OFFICE (SOME LARGER ROOMS HAVE MORE, i.e.
CONF. ROOM, COMPUTER ROOMS, CLUSTERS)
- WILL USE SAME CABLES, MULTIPLEXED IN Bat. 32

phase 1: APRIL → AUGUST

- INSTAL 60 DATA-OVER-VOICE MODEMS (4800 baud)

  ATTENTION: IF TELEPHONE IN OFFICE ONLY 1 TERMINAL
  CAN BE CONNECTED

- UP TO 20 EXTRA INDEX CONNECTIONS COULD
  BE INSTALLED, ROUTED THROUGH Bat.2 DISTRIBUTION

  PEOPLE HAVE TO BRING EXISTING INDEX
  CONNECTION WITH THEM

  ⇒ PLEASE FILL IN FORM OUTSIDE AKIBLLA'S OFFICE
      - NAME
      - OFFICE IN Bat. 32
      - EXISTING INDEX (FROM WHICH OFFICE)
      - DATE OF INSTALLATION REQUIRED

→ by JUNE : — ETHERNET IN BASEMENT, 1st FLOOR
                INSTALLED (WITH FRIGATE)
              — X-25 SWITCH IN BUILDING

phase 2: AUGUST/SEPTEMBER → end 1986

- INSTAL DEFINITE TERMINAL CONNECTIONS VIA
  MULTIPLEXORS

- REMOVE MODEMS

- MAYBE ALL TERMINAL CONNECTIONS
  AVAILABLE BY END 1986 (DEPENDS ON
  WORK LOAD TO INSTAL MULTIPLEXORS, etc.)

IMPORTANT NOW: ⇒ BY END OF ALEPH WEEK

- LIST OF PRIORITIES FOR TERMINAL CONNECTIONS

- MAKE SURE YOU HAVE YOUR OWN TERMINALS

    PS: EVALUATION OF NEW STANDARD ALPHA
        TERMINALS FINISHED: DTH 2200   off: 12'45.
        TERICOM MT200   off:

    (⇒ CONTACT PK)

PROPOSAL

for a recommended subset of

"Standard Subroutines"

for use in ALEPH

This proposal is based on work done essentially by M.Metcalf and H.Renshall with contributions by F.James.

This note includes DD/US/31 published recently which provides a list of recommended subroutines from the CERN Program Library. Three excerpts from recent Computer Newsletters treat questions of bit handling, character and hollerith data types and DELHI recommendations for standard subroutines in more detail. A copy of transparencies presented by F.James at the ALEPH Monte Carlo meeting in January 1986 has been included.

PROPOSAL :

➙ use only those subroutines indicated in DD/US/31 and the very few cases given in CNL 180 where no suitable replacement exists,

➙ use preferentially the bit routines from BITPAK (M441) unless long vectors of bits and bytes have to be manipulated where other routines from DD/US/31 will be more suitable,

➙ follow the recommendations for character handling as indicated on the transparencies of F.James. Note that routines IFROMC and CFROMI will be available with the next realease of the CERN Program Library (march 1986),

➙ use preferrentially NORRAN as random number generator (to be discussed)

This proposal should be discussed at the CSP meeting in March 1986. If approved it should be applied immediately for all code being written.

➙ to be looked at for next meeting

EUROPEAN ORGANISATION FOR NUCLEAR RESEARCH

PROPOSAL

for updates to the

"FORTRAN 77 Programming Conventions"

(Aleph note 136, January 15, 1985)

This is a collection of suggestions for updates to our approved conventions that have been received during the last 3 months.

- REFER TO ALEPH NOTE # 136 : M, R, S ≙ M, S + ≙ R

- DISCUSS AND DECIDE AT THIS MEETING ANY CHANGES

    — IN GENERAL : SPECIFIC PROPOSALS FOR INDIVIDUAL CHANGES

        — H. TROST : COMMENTS ON VIOLATIONS ---► WHAT IS PROPOSAL ?

        — F. RANJARD: DROP EVERYTHING EXCEPT SPECIFIC RULES QUOTE
                    ---► SEVERAL R → M , SEVERAL M DROPPED

    — DETAILED PROPOSALS (--- see list)

- FORMAL AGREEMENT THAT :

    a) CODE MUST BE CHECKED BY AUTHORS WITH

        FLOPPY + MANUALLY FOR FEW RULES WHICH CAN NOT B
                CODED (e.g. USE OF * , ARRAY LIMITS, ...)

        ANSI FLAG IN COMPILER

    b) CODE WILL BE CHECKED BY LIBRARIAN USING THE
        SAME RULES

    c) CODE WILL BE RETURNED TO AUTHORS IF
        NOT CONFORM TO RULES