

Trying the journal system in the new NLS.

(J23693) 29-JUL-74 19:07;;; Title: Author(s): Geoffrey S.
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NIC; Clerk: GSG;

Trying the journal system in the new NLS.

This is a try to use the new journal system that is currently available in the new version of nls. It is mearly for practce,

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Inter-Environment Protocol Design Working Paper JEW 30 JUL 74

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White/JEW; Distribution: /SRI=ARC([INFO=ONLY]) ; sub=Collections;
SRI=ARC; Clerk: JEW; Origin: < WHITE, PCPDSGN.NLS;31, >,
29-JUL-74 19:16 JEW ;;;; #####

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For those interested in contributing to the design of the protocol to be used in the NLS split, This document is incomplete and unpolished, but should indicate the direction in which I'm headed. Now is the time to offer suggestions.

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Multi-Environment Software System

1

The Multi-Environment Software System (or MESS) is a collection of "procedures" and "data item" partitioned among some arbitrary number of "environments" (e.g., forks or hosts),

1a

Environments

1b

An environment is a collection of procedures and data items which share a common host machine, instruction set, operating system, and so forth; and a single program counter (PC),

1b1

With its own PC, an environment is capable of running in parallel with other environments, but may also volunteer to run for a time in synchrony with another environment as a coroutine,

1b2

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Procedures

1c

A procedure is a named body of executable code residing within a particular environment. A procedure in one environment is said to be "internal" to that environment and "external" to every other environment.

1c1

A procedure can call other procedures, both internal and external. The mechanism for calling an internal procedure is environment-dependent and of no concern to the MESS as a whole. External procedures are called by means of the inter-environment protocol (IEP) described in this paper.

1c2

In principle, procedures can be interlinked without regard for the environments in which they reside. It is perfectly legitimate, for example, for procedure p1 in environment A to call procedure p2 in environment B which itself calls procedure p3 in environment A before returning to p1. Any conceivable interlinking of environments is possible.

1c2a

However, in practice the programmer should assume that calling an external procedure is more expensive (in terms of both the real and processing time required) than calling an internal procedure (an operation which may be as simple as a single machine instruction). The process of partitioning the system among environments should therefore be done with intelligence and care.

1c2b

Not every procedure within an environment need be callable from other environments. A procedure that CAN be called from an environment other than its own is said to be "accessible" to them; all other procedures are said to be "inaccessible".

1c3

A procedure accepts zero or more data items as formal parameters or "arguments", and returns to its caller zero or more data items as "results". Arguments for and results of external procedures are passed by value, rather than by name. Hence, procedure "results" cannot be returned by way of modified arguments.

1c4

A procedure is often understood by its caller to either succeed or fail at its task. The outcome indication can be communicated to the caller via a particular procedure result or global data item, or in some other way agreed upon by both caller and callee. A standard method, called "signalling", of indicating the failure of an external procedure is provided throughout the MESS, and its use is encouraged. An external procedure that signals a failure returns to its caller a

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program-readable error code and a human-readable diagnostic message, in lieu of the normal procedure results,

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Data Items

1d

A data item is a named data store, usually occupying some portion of an environment's address space. A data item in one environment is said to be "internal" to that environment and "external" to every other environment.

1d1

Local data items accessible from within and existing only during a single use of a procedure serve as temporary storage for that procedure. Global data items accessible to every procedure within the environment record environment state information. Only global data items can be external.

1d2

No data items exist which are global to the whole system. As will become apparent, however, a MESS can be constructed in such a way that (for example) data items v1, v2, and v3 in environments E1, E2, and E3, respectively, are always identical.

1d2a

A procedure can manipulate both internal and external data items. The mechanism for manipulating an internal data item is environment-dependent and of no concern to the MESS as a whole. External data items are manipulated by means of the IEP.

1d3

Not every data item within an environment need be manipulable from other environments. A data item that CAN be manipulated from an environment other than its own is said to be "accessible" from other environments; all other data items are said to be "inaccessible".

1d4

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Interlinking Environments

1e

At any point in time, a MESS is a tree structure of environments. Every MESS begins with a single "root" environment to which all other environments are ultimately subordinate. During the course of its execution, the root environment creates zero or more subordinate environments, one or more of which may create subordinate environment(s) of its own, and so forth,

1e1

An environment is said to be the "direct inferior" of the environment that created it, and the "indirect inferior" of each environment further up in the environment tree,

1e1a

An environment is said to be the "direct superior" of each environment it creates, and the "indirect superior" of each environment further down in the tree,

1e1b

An environment may have, at any point in time, an arbitrary number of directly inferior environments, but only one directly superior environment,

1e1c

A superior creates an inferior in order to invoke one or more of its external procedures. After its services have been used, the inferior environment may be deleted,

1e2

A procedure may call any accessible procedure in any of its environment's directly inferior environments, or in its directly superior environment. Additionally, a procedure may call any accessible procedure in any of its environment's indirectly inferior or superior procedures, provided that the environment has been made "known" to the caller's environment,

1e3

An environment is referred to via an "environment identifier", or VID. A VID is a local handle to an environment, and is always evaluated relative to the environment in which it is defined. The special VIDs SELF and SUPER are always known in every environment, and designate the environment and its direct superior, respectively. A VID is assigned to each directly inferior environment as it is created. VIDs for indirectly inferior or superior environments must be explicitly obtained via the \$GETHND primitive,

1e3a

An environment and its directly inferior environment will, in the most frequent case, be related as user and server, respectively. That is, the former will view the latter as a

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resource == a set of procedures to be used in furtherance of some higher-level objective,

1e4

A more complicated relationship between superior and inferior is one in which an external procedure called from the superior responds, during the course of its execution, with one or more calls to procedures in the superior. By this means, the inferior can in effect return very complex "results" to its caller,

1e5

More complicated still is a system in which a procedure calls another procedure in one of its environment's indirect inferiors or superiors. No useful examples of such a system come to mind,

1e6

Not only can an environment call procedures in any environment known to it, but it can also apply other, support primitives to any such environment. The root primitive can therefore apply debug primitives, for example, to any environment in the system, no matter how deeply hidden in the tree,

1e7

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IEP Functions

1f

The IEP described in this paper provides mechanisms for the following:

1f1

- 1) creating and deleting environments 1f1a
- 2) transferring control between environments 1f1b
- 3) transmitting arguments and results between an external procedure and its caller 1f1c
- 4) examining and modifying external data items 1f1d
- 5) reporting external events to environments 1f1e
- 6) debugging external procedures, 1f1f

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User Primitives 2

Introduction 2a

Below is a list of the primitives to be made available, in an environment-dependent fashion (probably as procedure calls in most cases), within each environment in the MESS. Each primitive is described in the following form:

Terse statement of primitive's function 2a1

name-of-primitive (arguments => results) 2a1a

Verbose description of the primitive's function, the arguments it requires, and the results it returns. 2a1a2

Support operations: 2a1a3

A list of the IEP exchanges required to support the user primitive, 2a1a3a

Every primitive described below, with the exception of SCALL itself, is implemented by means of the SCALL primitive. That is, 2a2

\$SETBRK (vid, addr, pcdent) 2a2a

for example, is basically just shorthand for: 2a3

SCALL (SETBRK, vid, addr, pcdent). 2a3a

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| | |
|--|------|
| Environment Manipulation | 2b |
| Create an environment | 2b1 |
| \$CRTEVM (envname => vid) | 2b1a |
| This primitive attaches an instance of the environment named ENVNAME as an inferior of the calling environment. The primitive returns VID as a handle to the newly-created environment. | 2b1b |
| Login to an environment | 2b2 |
| \$LOGIN (vid, user, password, acct) | 2b2a |
| This primitive associates the user USER and the account ACCT (both protected by the password PASSWORD) with the environment identified by VID. The implications of the association are environment dependent; it may affect the environment's ability to use its file system, the billing of the environment's use, and so forth. | 2b2b |
| Obtain access to a subset of an environment's procedures and data items | 2b3 |
| \$SETACC (vid, accname) | 2b3a |
| This primitive makes the set of procedures and data items named by ACCNAME in the environment identified by VID, accessible to the calling environment. Some sets of procedures and data items may be restricted, and access to them may be obtainable (via \$SETACC) only after a privileged user has been associated with the environment (via \$LOGIN). | 2b3b |
| Delete an environment | 2b4 |
| \$DELEVM (vid) | 2b4a |
| This primitive detaches the environment identified by VID from the calling environment, to which the deleted environment must be directly inferior. | 2b4b |
| Obtain a handle for an environment | 2b5 |
| \$GETHND (supervid, targetvid => vid) | 2b5a |
| This primitive obtains, for the calling environment, a | |

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handle VID to an environment which is inferior, but not directly inferior, to it (e.g., the environment might be directly inferior to an inferior of the calling environment). The environment is identified by specifying the handle TARGETVID by which the environment is known to its superior, which is known in turn to the calling environment as SUPERVID. Once a handle to it has been obtained, the environment is known to the calling environment and can be manipulated as if it were a direct inferior,

2b5b

Release handle for an environment

2b6

SRELHND (vid)

2b6a

This primitive releases the environment handle VID previously obtained with SGETHND. After the handle is released, the environment is no longer known to the calling environment,

2b6b

Freeze an environment

2b7

SFRZEVM (vid)

2b7a

This primitive suspends execution of the environment identified by VID (and all of its inferior environments),

2b7b

Thaw an environment

2b8

STHWEVM (vid)

2b8a

This primitive resumes execution of the environment identified by VID (and all of its inferior environments), previously frozen with SFRZEVM,

2b8b

Map system structure

2b9

SMAPSYS (vid, depth => map)

2b9a

This primitive depicts for the calling environment, the structure of a subset of the system's tree of environments. The desired subset is indicated by specifying a handle VID which denotes the topmost environment to be considered, and the depth DEPTH of the depiction relative to the topmost environment,

2b9b

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| | |
|--|-------|
| Procedure Calls | 2c |
| Obtain list of environment's accessible procedures | 2c1 |
| \$PRCMENU (vid => prclist) | 2c1a |
| prclist = proci, arglist1, reslist1, ... | 2c1a1 |
| This primitive obtains from the environment identified by VID a list PRCLIST of its accessible procedures and their calling sequences. | 2c1b |
| Call an external procedure | 2c2 |
| \$CALL (procname, vid, arg1, ..., argn, terms => cmplstatus, res1, ..., resn) | 2c2a |
| This primitive causes the procedure PROCNAME in the environment identified by VID to be called with arguments ARG1 through ARGN, RES1 through RESN represent the results returned by the procedure, TERMS is a set of flags which specify the mode in which the procedure is to be executed: | 2c2b |
| BGNBLK == this procedure call is the first in a block of procedures to be acknowledged with a single return | 2c2b1 |
| ENDBLK == this procedure call is the last in a block of procedures to be acknowledged with a single return | 2c2b2 |
| ASYNCH == this procedure is to be executed asynchronously | 2c2b3 |
| CMPLSTATUS specifies the interpretation to be attached to RES1 through RESN; | 2c2c |
| RETURN == the procedure has returned; RES1 through RESN are its results | 2c2c1 |
| SIGNAL == the procedure has signalled; RES1 is the signal code and RES2 is the diagnostic message | 2c2c2 |
| BRKPNT == a breakpoint has been reached; RES1 is the vid of the environment containing the breakpoint, and RES2 is the address within that environment of the breakpointed instruction | 2c2c3 |
| Obtain list of environment's accessible data items | 2c3 |
| \$DATMENU (vid => datalist) | 2c3a |
| This primitive obtains from the environment identified by VID a list DATALIST of its accessible data items and their types. | 2c3b |

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| | |
|---|------|
| Read external data item | 2c4 |
| SRDDAT (vid, dataname => dataval) | 2c4a |
| This primitive returns the value DATAVAL of the accessible data item DATANAME in the environment identified by VID, | 2c4b |
| Write external data item | 2c5 |
| SWRDAT (vid, dataname, dataval) | 2c5a |
| This primitive assigns a new value DATAVAL to the accessible data item DATANAME in the environment identified by VID | 2c5b |
| Create temporary external data item | 2c6 |
| SCRTTMP (vid, tmpname, tmptype) | 2c6a |
| This primitive creates in the environment identified by VID, the temporary data item TMPNAME accessible to the calling environment. TMPTYPE specifies the type of data item to be created. Once created, the temporary data item can be used and manipulated like any other external data item, | 2c6b |
| Delete temporary external data item | 2c7 |
| sDELTMP (vid, tmpname) | 2c7a |
| This primitive deletes the temporary data item previously created in the environment identified by VID via SCRTTMP, | 2c7b |
| Notify environment of an external event | 2c8 |
| sPOST (vid, eventname) | 2c8a |
| This primitive communicates the occurrence of an external, asynchronous event EVENTNAME (e.g, the expiration of a timer or the typing of an interrupt character) to the environment identified by VID, | 2c8b |

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| | |
|---|--------|
| Debugging | 2d |
| Address Space Manipulation | 2d1 |
| Read external address space | 2d1a |
| SRDCORE (vid, addr, wrdcnt, coremode => corelist) | 2d1a1 |
| This primitive retrieves (and returns as CORELIST) the current contents of a contiguous block of cells in the address space of the environment identified by VID, ADDR is the address of the first cell whose contents are requested; WRDCNT indicates the number of cells to be returned, COREMODE specifies the form in which the requested information is to be presented; | 2d1a2 |
| TEXT == by interpreting the cell block as text | 2d1a2a |
| CODE == by interpreting each cell as an executable instruction | 2d1a2b |
| INTEGER == by interpreting each cell as an integer | 2d1a2c |
| BYTES size == by interpreting the cell block as a sequence of size-bit bytes | 2d1a2d |
| FLTPNT == by interpreting each cell as a floating-point number | 2d1a2e |
| misc == other, environment-dependent interpretations | 2d1a2f |
| Write external address space | 2d1b |
| SWRCORE (vid, addr, wrdcnt, coremode, corelist) | 2d1b1 |
| This primitive stores CORELIST in a contiguous block of cells in the address space of the environment identified by VID, ADDR is the address of the first cell whose contents are to be modified; WRDCNT indicates the number of cells to be modified, COREMODE specifies the form in which the requested information is to be interpreted (as in SRDCORE), | 2d1b2 |
| Read external accumulators | 2d1c |
| SRDREGS (vid, reg, regcnt, coremode => reglist) | 2d1c1 |
| This primitive retrieves (and returns as REGLIST) the current contents of a contiguous block of accumulators in the environment identified by VID, REG is the name of the first accumulator whose contents are requested; REGCNT indicates the number of accumulators to be | |

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returned, COREMODE specifies the form in which the requested information is to be presented (as in SRDCORE) 2d1c2

Write external accumulators 2d1d

SWRREGS (vid, reg, regcnt, coremode => reglist) 2d1d1

This primitive stores REGLIST in a contiguous block of accumulators in the environment identified by VID, REG is the name of the first accumulator whose contents is to be modified; REGCNT indicates the number of accumulators to be modified, COREMODE specifies the form in which the requested information is to be interpreted (as in SRDCORE), 2d1d2

Search external address space 2d1e

SSRCH (vid, addr, wrdcnt, srchmode, ptrn => addrlist) 2d1e1

This primitive searches, within a contiguous block of cells in the address space of the environment identified by VID, for cells conforming to the pattern PTRN, and returns a list of their addresses. The cell block to be searched is WRDCNT cells in length and begins with cell ADDR, SRCHMODE specified the kind of search to be performed, and the proper interpretation of PTRN: 2d1e2

ADDR == search for an instruction whose effective address is PTRN 2d1e2a

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| | |
|--|-------|
| Symbol Table Manipulation | 2d2 |
| Open external symbol table | 2d2a |
| sOPSYMT (vid, tblname) | 2d2a1 |
| This procedure makes Known to the calling environment the symbols contained in the symbol table TBLNAME in the environment identified by VID. | 2d2a2 |
| Close external symbol table | 2d2b |
| sCLSYMT (vid, tblname) | 2d2b1 |
| This procedure makes Unknown to the calling environment the symbols contained in the symbol table TBLNAME (previously opened with sOPSYMT) in the environment identified by VID. | 2d2b2 |
| Create external symbol | 2d2c |
| sCRTSYM (vid, tblname, symname, symval) | 2d2c1 |
| This Primitive adds the symbol SYMNAME to the previously-opened symbol table TBLNAME in the environment identified by VID, and assigns it the value SYMVAL. | 2d2c2 |
| Delete external symbol | 2d2d |
| sDELSYM (vid, symname) | 2d2d1 |
| This primitive deletes the symbol SYMNAME from the previously-opened symbol table TBLNAME in the environment identified by VID. | 2d2d2 |
| Read value of external symbol | 2d2e |
| sVALSYM (vid, symname -> symval) | 2d2e1 |
| This primitive returns the value of the symbol SYMNAME known to the environment identified by VID. | 2d2e2 |
| Write value of external symbol | 2d2f |
| sSETSYM (vid, symname, symval) | 2d2f1 |
| This Primitive assigns to the symbol SYMNAME known to the environment identified by VID, the value SYMVAL. | 2d2f2 |

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| | |
|---|-------|
| Breakpoint Manipulation | 2d3 |
| Create external breakpoint | 2d3a |
| SSETBRK (vid, addr, pcdcnt) | 2d3a1 |
| This primitive sets a breakpoint at address ADDR in the address space of the environment identified by VID, which suspends execution of the environment the PCDCNTth time the environment's PC reaches ADDR, | 2d3a2 |
| Delete external breakpoint(s) | 2d3b |
| SREMBRK (vid [,addr]) | 2d3b1 |
| This primitive removes the breakpoint previously set at address ADDR in the address space of the environment identified by VID. If ADDR is absent, all breakpoints set by the calling environment in environment VID are removed, | 2d3b2 |
| Proceed after suspend or external breakpoint | 2d3c |
| SRESUME (vid [,addr]) | 2d3c1 |
| This primitive resumes execution of the environment identified by VID, currently suspended at a breakpoint. If ADDR is present, the environment's PC is set to ADDR before execution of the environment is resumed, | 2d3c2 |

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| | |
|---|-------|
| Miscellaneous | 2d4 |
| Execute external instruction | 2d4a |
| SEX (vid, inst) | 2d4a1 |
| This primitive executes the single instruction INST in the environment identified by VID, | 2d4a2 |
| Obtain environment characteristics | 2d4b |
| SEVMCHR (vid => size, wrdlen, regcnt) | 2d4b1 |
| This primitive returns characteristic information about the environment identified by VID: the number SIZE of cells in its address space, the width WRDLEN of each cell in bits, and the number of accumulators it possesses, | 2d4b2 |

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| | |
|---|-------|
| Summary | 2e |
| Basic primitives | 2e1 |
| Manipulating environments | 2e1a |
| SCRTEVM (envname => vid) | 2e1a1 |
| SDELEVM (vid) | 2e1a2 |
| SSETACC (vid, accname) | 2e1a3 |
| SLOGIN (vid, user, password, acct) | 2e1a4 |
| Calling external procedures | 2e1b |
| SPRCMENU (vid => prclist) | 2e1b1 |
| SDATMENU (vid => datalist) | 2e1b2 |
| SCALL (vid, procname, arg1, ..., argn, terms => cmplstatus, resi, ..., resn) | 2e1b3 |
| Manipulating external data items | 2e1c |
| SRDDAT (vid, dataname => dataval) | 2e1c1 |
| SWRDAT (vid, dataname, dataval) | 2e1c2 |
| SCRITMP (vid, tmpname, tmptype) | 2e1c3 |
| SDELTMP (vid, tmpname) | 2e1c4 |
| Reporting external events | 2e1d |
| SPOST (vid, eventname) | 2e1d1 |
| Additional primitives for complex systems | 2e2 |
| \$MARSYS (vid, depth => map) | 2e2a |
| \$GETHND (supervid, targetvid => vid) | 2e2b |
| \$RELHND (vid) | 2e2c |
| \$FRZEVM (vid) | 2e2d |
| \$THWEVM (vid) | 2e2e |

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| | |
|--|-------|
| Debugging primitives | 2e3 |
| Manipulating external address spaces and accumulators | 2e3a |
| SRDCORE (vid, addr, wrdcnt, coremode => corelist) | 2e3a1 |
| SWRCORE (vid, addr, wrdcnt, coremode, corelist) | 2e3a2 |
| SRDREGS (vid, reg, regcnt, coremode => reglist) | 2e3a3 |
| SWRREGS (vid, reg, regcnt, coremode => reglist) | 2e3a4 |
| SSRCH (vid, addr, wrdcnt, srchmode, ptrn => addrlist) | 2e3a5 |
| Basic symbol manipulation | 2e3b |
| SVALSYM (vid, symname => symval) | 2e3b1 |
| Additional primitives for more complex symbol manipulation | 2e3c |
| SOPSYMT (vid, tblname) | 2e3c1 |
| SCLSYMT (vid, tblname) | 2e3c2 |
| SCRYSYM (vid, tblname, symname, symval) | 2e3c3 |
| SDELSYM (vid, symname) | 2e3c4 |
| SSETSYM (vid, symname, symval) | 2e3c5 |
| Breakpoints | 2e3d |
| SSETBRK (vid, addr, pdcnt) | 2e3d1 |
| SREMBRK (vid [,addr]) | 2e3d2 |
| SRESUME (vid [,addr]) | 2e3d3 |
| Miscellaneous | 2e3e |
| SEX (vid, inst) | 2e3e1 |
| SEVMCHR (vid => size, wrdlen, regcnt) | 2e3e2 |

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Data Types

3

Arguments passed to or results return by an external procedure, and external data items manipulated, all must be encoded for inter-environment transfer as part of the IEP. In order to do this, the types of arguments that a procedure can require of external callers must be identified. In so doing, we are enumerating the kinds of data items which can be transferred between environments, and not the ways in which a data item can be represented in transit between environments,

3a

We define the following types of data items:

3b

STR (string) == a text string, with both a current and a maximum length

3b1

INT (fixed-point integer) == a signed integer

3b2

WRD (memory cell) == an unsigned integer

3b3

RUC (structure) == a complex data items requiring an explicit description

3b4

We define the following operations upon data items:

3c

ADR (address) == a WRD data item whose value is the address of another data item

3c1

FLD (field) == s specified portion of another data item

3c2

The value of a data item, regardless of its type, can be communicated between (source and destination) environments in either of the following ways:

3d

LITERAL == by simply stating its value

3d1

DATA ITEM REFERENCE == by stating that its value is identical to that of some data item (possibly a temporary data item, in which, for example, a result of a previous procedure may have been stored), in the destination environment, to which the source environment has access

3d2

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Inter-Environment Protocol

4

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Inter-Environment Communication

4a

In beginning to define IEP, we make some assumptions about the mechanisms available for inter-environment communication (IEC). First we assume that the desired communication cannot be achieved with simply machine instructions, since it is that assumption which makes the MESS a multi-environment system to begin with. Any additional assumptions we make must have the following characteristics:

4a1

1) they must be true with respect to the two known potential applications of IEP -- a multi-fork and a multi-host system, and

4a1a

2) IEP must be implementable using the resulting IEC.

4a1b

...

4a2

...

4b

KIRK 29=JUL=74 22:35 23697

You have new journal mail just lied to me,

(J23697) 29=JUL=74 22:35;;; Title: Author(s): Kirk E. Kelley/KIRK;
Distribution: /HGL([ACTION]) JDH([ACTION]) HGL([INFO=ONLY])
JDH([INFO=ONLY]) ; Sub=Collections: SRI=ARC; Clerk: KIRK;

You have new journal mail just lied to me,

I had already seen that mail and my "action" and "info" branch had no new mail,

Dumps During Prime Time

(J23700) 30-JUL-74 09:49;;; Title: Author(s): Harvey G,
Lehtman/HGL; Distribution: /RWW([ACTION]) JCN([ACTION]) DCE([ACTION]) CHI([ACTION]) DVN([INFO-ONLY]) KIRK([INFO-ONLY]) JDH([INFO-ONLY]) ; Sub=Collections: SRI=ARC; Clerk: HGL;

Dumps During Prime Time

Last night Dave and I were trying to debug the new Journal system, several people were doing document production, and someone was trying to do FORTRAN development. None of us had much success inasmuch as the load average at 9:30 PM was 10! The reason was the fact that a DUMP was being done (and is done as general policy now at this prime time) and was assigned 50% of the system. This strikes me as being counterproductive since the load is pretty awful during the day anyway. Why was the old policy changed?

1

HGL 30-JUL-74 10:00 23701

You Oughta Be in Pictures: Filming in the Console Room Wednesday,
31-JUL-74 in morning

(J23701) 30-JUL-74 10:00;;; Title: Author(s): Harvey G.
Lehtman/HGL; Distribution: /SRI-ARC([ACTION]); Sub-Collections:
SRI-ARC; Clerk: HGL;

You Oughta Be in Pictures: Filming in the Console Room Wednesday,
31-JUL-74 in morning

Zev Pressman will be here on Wednesday morning to film some environment shots of our console room for addition to the film Charles and Don used at the NCC. Elizabeth and I will be using the resulting new film for our respective talks very soon. We need the cooperation of YOU to make these short segments a success. We understand there may be some inconvenience, but expect it to be minimal. Setup of the lights and movement of the terminals should take at most two hours; the actual filming should take at most 1/2 hour. During the filming, you may be asked to stay at your terminal to assure continuity and color. You may even be asked to do something dumb like walk across the room with a code book. If you do not wish to participate, be forewarned and stay away, but we hope you will there. Thanks, HGL

1

SRI and a DDPCS Community

(J23702) 30-JUL-74 10:21;;; Title: Author(s): Douglas C.
Engelbart/DCE; Distribution: /DVN([INFO=ONLY]) BC([INFO=ONLY])
DRB([INFO=ONLY]) TLH([INFO=ONLY]) JCN([INFO=ONLY]) RWW([INFO=ONLY]) ; Sub-Collections: SRI=ARC; Clerk: DCE; Origin:
<ENGELBART>DDPCS,NLS;3, 6-MAR-74 12:29 DCE ;####;

SRI and a DDPCS Community

Recording a memo from 6 Mar 74 (Engelbart, DDPCS,) that has been discussed with Cox, Brown, Van Nouhuys. Expect to develop and discuss further.

SRI and a DDPCS Community

This is a first draft toward producing an explicit thinkpiece (proposal) about a multi-client program that SRI could promote, aimed at cooperatively evolving (for the Community's own use) a set of Augmented Knowledge Workshop (AKW) techniques specially designed to facilitate the development, production, and control of documentation,

1

This DDPCS Community (for Document Development Production and Control System) would be a part of the larger set of special-interest communities, the collection of which I've been calling the Bootstrap Community (BC),

2

Among all of communities in BC there would be a good deal of mutual contribution to the technical improvements, application methodology, evaluation, and continuing evolution of the "core AKW" -- i.e., facilitating the core or basic sorts of operations common to almost any type of knowledge work,

2a

Each special-interest community would extend the AKW system into some particular knowledge-work domain that would be of value to the others (which is the essential criterion for being part of the "Bootstrap" Community) but for which the special interests and capabilities of that community would give it the most impetus and relevant contribution,

2b

General working arrangements within the community of participating organizations:

3

Each participant becomes a client of our AKW Utility, buying initially a minimal amount of Utility support,

3a

The computer service is piped into a location of their choosing, in their own premises. They acquire a representative set of terminals with which to exercise different capabilities of the service system,

3a1

See the proposal to Bell of Canada, cited at the end of this paper, for a representative description of the Utility's services and contract provisions. Both the services and the contract provisions are expected to evolve,

3a2

Suitable people in the participant's organization must serve respectively as Workshop Architect and as Management Liaison, and they must be provided with time to learn and to participate,

3b

The Workshop Architect does not serve as a computer or hardware developer; his architectural concern is with the "user system," the organization, roles, methods, knowledge, skills, etc., that can increase effectiveness when served by the computer and communication services, via terminal hardware,

3b1

SRI and a DDPCS Community

He is concerned with functional characteristics of this service system, and will have much to do with their evaluation and evolution,

3b1a

Via the Utility subscription, the architect receives continuing training and technical support for doing his job -- indeed, many of the basic AKW techniques provided in the Utility service are oriented to help him do his work. Generally, the architect will be responsible for training all other users in his organization,

3b1b

There is a specially organized working group out in the community at large, composed solely of workshop architects. Special services in the Utility service effectively support the inter-communication and collaboration among the architects. The basic design of the BC relies upon a continuing, close and effective collaborative relationship within this organization of architects -- the work of each architect is expected to be much facilitated thereby,

3b1c

The Management Liaison, a member of the participating organization's management structure, is essentially the internal promoter of the exploration and possible application of AKW techniques,

3b2

There will be an organization of these management-liaison persons. When the community stabilizes, this group will come to be the body that regulates the joint business matters, negotiates among themselves for development funds and objectives, negotiates for better buys in computer services, equipment, etc,

3b2a

(To obtain resources for continuing evolution of the common-venture system, it is assumed that the participants contribute into a development fund -- via taxation, subscription, or some reasonable arrangement.)

3b2b

Three central roles in the community are involved;

3c

Service Utility -- the role providing computer services, training, and application counseling, is served by the Knowledge Workshop Utility (or simply Utility) that is already an established SRI business (and is highly expandable). Someday the community could decide to get this service in some other way, but in the initial design, it will be the SRI managed Utility,

3c1

Community Nucleator -- the person or group that initially promotes membership, stimulates and coordinates its

SRI and a DDPCS Community

organization, and sets it on its course. Eventually this role becomes totally subservient to the organization of Management Liaison persons, who will run the community's business, but the initial launching is viewed as being a package that the Nucleator is selling, with some stipulation as to when control changes hands,

3c2

Community Architect -- the architect of the "community knowledge workshop." In the "collaborative community" design it is planned for there to be a significant amount of community communication and business constantly going on. Included in the basic Utility services are powerful tools designed to facilitate these processes; the community needs to adopt organization, method, conventions, etc. to harness these. These latter will evolve considerably as the community matures in its experience, purpose, and skills, and it is the role of the Community's "Knowledge-workshop" Architect to set up the collaboration system and guide its evolution. (In my paper, 12445, > there is a detailed discussion of the sequence of community-oriented services that can be thus involved. See the reference at the end of this paper.)

3c3

Other, general features of the community;

4

We would expect either initially, or very soon, that within a given participant's organization a small, early-prototype group of people would begin using their Utility resources in some purposeful operations, mainly for gaining initial experience,

4a

One part of the technique development will be aimed at steadily cutting the costs of system use, and improving the means for mapping the system into different hardware and operating systems, interfacing to different terminals and printing devices, facilitating the updating and maintenance, etc. The assumption would be that Community members will track the improvements of the system, and also that they will have an increasing range of individual choice as to the means by which they provide themselves with computer services while still using the "standard, evolving DDPCS",

4b

A seemingly sensible sequence of extensions to the initial service system are readily mapped out: e.g., spelling checker (more or less available now); tabular-data arrays; extending the character set to handle math symbols, equations, etc; introducing line graphics (to provide for charts, graphs, function plots, etc.); multiple-pass document compiler, etc,

4c

The basic features planned in the Bootstrap Community would also operate here -- i.e., that the Knowledge Workshop Architect's

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Community (specially formed to provide constant, close collaboration and support for all of the KW Architects in all of the special communities) would be supported in such a way as to make highly effective the technical collaboration among participating clients. For instance, people can work in close, daily association (as is being demonstrated now within our already forming community).

4d

This feature provides a highly unique aspect here that no other multi-client venture could have before now; a feature that can be a prototype for a revolution in the way that complex systems will be developed in the future, and that complex problems will be handled among many distributed and diverse parties. In itself this aspect is an important 'experiment', and it provides not a little payoff to the clientele to be gaining experience in such collaborative techniques.

4d1

But besides it just being unique, and providing valuable experience, the collaborative support offered in these communities really does provide a very significant new payoff element. It brings a really significant new degree of closeness to the distributed groups that the coordination among them, in sharing ideas and experiences, in collaborating over analysis, and over plans and designs for improving the system, for setting standards, etc., that a truly new degree of payoff can result from entering into cooperation.

4d2

A significant element in promoting interest in participating would be the concurrent work that can probably directly (or at least very easily) be mapped into the special community's domain from what ARPA is (we assume) going to be supporting in its MST Program (and probably also in its Software Production Technology Program, and later in its Command Control Communications Program) -- and of course in the hopefully growing number of other applications activities.

4e

Should note here that RADC has just started seriously looking into the use of NLS and the Output Processor (to COM) for producing a very large technical document. Also note the ongoing process of collaborative dialogue between their architect and our guys.

4e1

As the base of bootstrap=community participants grows, there will be a powerful snowballing effect. The larger the base, the more advantage is gained by joining, and the easier it is to enlist new participants. We already have an appreciable start here -- a truly advanced system, a Utility, an approach,

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a core clientele, with significant participation in MSTP we'd gain a great deal more impetus,

4e2

The giants in the knowledge=system business -- IBM and Xerox for instance -- may indeed emerge with systems that meet the need, and would make a potential participant seriously wonder if he ought to wait and buy what they bring out. My intuition is that we can really offer something better than that; it would be important to begin examining this issue. (If indeed we couldn't offer better, I'm not sure that I'd be interested in pursuing the Bootstrap Community development.)

4f

The approach I envision would be constantly adaptive to user needs;

4f1

It would constantly be evaluating components, sub-systems, indeed whole systems, that are commercially available; when advantageous, these would be integrated into the evolving whole system. Competition would exist in sub-areas, which fosters steady evolution toward whole-system optimization. To have to buy either one whole system from either one manufacturer or another, as systems get ever large, locks a consumer out from gaining advantage of important innovations,

4f2

And, there would be parallel constant evaluation of parts of the existing system, and merciless retirement from the recommended configuration when superseded,

4f3

The extra feature of "augmenting the collaborative processes of improving the tools and methods" is to me highly promising. The effectiveness of the process, if enhanced even a small amount, would in a relatively few years lead to a significantly better over-all system,

4f4

The launching process;

5

SRI could formulate a package, based upon a sort of extension of the AKW Utility subscription, with a specified starting state for the characteristics of the DDPCS offered (e.g. like it is now); then do some market testing to see what the potential seems to be. If there would seem to be even two hopefuls, it might well be worth starting with them. If more, good -- don't see any limiting number, really -- in fact, some definite advantages in enrolling a very large community,

5a

For membership in a DDPCS Community, it would be best to seek out organizations with the following basic characteristics:

5b

Developing, producing, and controlling documentation is a

SRI and a DDPCS Community

significant activity. The more significant the better. Assumedly there should be special payoff for some of the immediately available benefits of NLS, such as turn-around speed, distributed collaboration, linking, two-dimensional editing and viewing, etc., so that the relatively high startup costs of using NLS in pilot application provides at least some special payoff (although it really wouldn't have to be cost effective at the outset still to be a smart investment).

5b1

A good-prospect organization would need to be progressive enough to see the mid-range payoff, and to basically buy the over-all argument about inevitability, pervasiveness, heavy impact, very-high eventual payoff, long-term evolutionary program requirement, etc.

5b2

Also, an organization having high potential interest in the other areas of AKW applicability would have a better long-term inducement.

5b3

I picture that Bechtel Corporation would be a good prospect: large, expanding right now, operations all over the world to coordinate and solve problems for, fast and flexible coordination of many parties in preparing proposals undoubtedly important, records and documents also seemingly of constant basic importance, they don't really care about having proprietary locks on basic tools whose development they contribute to (I'd assume). Lockheed, hp, might be other corporations; many government agencies.

5b4

There would be many advantages in multi-participant cooperation here:

5c

It is too expensive to carry the system through to where it is obviously going, for a single organization to do alone if it doesn't have to. Dick McQuillan, a founder of Composition Technology Inc in Cambridge, whose company now serves clients with an impressive brand of computer aided transcription and typesetting (handling material with complex math symbols), agreed that the cost of continuing development along the above set of stages would be too much for any one organization.

5c1

The costs of doing steady, effective analysis, within an application domain large enough to be meaningful, on processes that still are being shaken down and that aren't yet really cost effective, would be rough to bear alone -- lots of cost ineffective expense just to get meaningful analytic data. But spread among many organizations, it presents a different picture. Each organization will get very large returns from having a central core of its people gaining experience, so

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there is extra payoff from at least this core group's being provided these services. The multiple interests and evaluative approaches taken by the different members, collaborating in their analysis and in their decisions as to how to invest joint resources for continuing development and analysis, would very much enrich the process. There would be more sharply focussed talent distributed among the core exploratory groups of the many participating organizations than would be found if just one organization went after the process with one monolithic project,

5c2

I would hope that particular consideration of the possibility of pursuing this DDPCS Community venture could be brought into the picture immediately within SRI. I think that the approach taken in doing the study for SRI's own internal DDPCS would be very sensibly affected if there were a serious possibility seen for SRI's doing this,

5d

For instance, it would make a great deal of sense for SRI, if it were to assess the Community approach favorably, to arrange for its internal investment in a DDPCS to be really a very neat double-return investment; set up its own serious DDPCS nucleus activity, using the AKW Utility approach, then balance the investment of resources it might otherwise spend on a solo development venture between getting a serious pilot operation going and enlisting a helpful group of participants who will share the subsequent evolutionary costs,

5d1

I would think that no matter what technology were selected as being best for SRI's own DDPCS approach, a cooperative community development scheme would be well worth considering. Adding to this consideration the extra advantages offered the community approach by using our AKW base instead of System X -- the augmented collaboration support, and the already existing community core (especially ARPA's MSTP, which apparently assumes good DDPCS capabilities will be essential) -- and it looks irresistible to me,

5d2

Background info:

6

Patterning some of the Community processes after the APT Program, as described by Dave Brandin, is worth considering,

6a

Apparently there is a growing and continuing pressure toward computerized documentation in government contracts for complex systems. I've heard talk of possibly writing such into contract requirements,

6b

Information International Inc. (who have the best COM for mixed

SRI and a DDPCS Community

text and graphics) have just landed a very big contract (I think with the Navy) to do automatic scanning and processing to convert existing hard-copy documents of certain types to computerized form, then to re-output them on their Comp-80 photo-composer. They have been in the high-precision film scanning business for over ten years,

6c

References:

7

D. C. Engelbart, COORDINATED INFORMATION SERVICES for a DISCIPLINE- OR MISSION-ORIENTED COMMUNITY, paper presented at the Second Annual Computer Communications Conference, San Jose, California, 24 January 1973, (Journal, dated 12 Dec 72 == 12445,)

7a

J. C. Norton, R. W. Watson, WORKSHOP UTILITY SERVICE FOR THE USE OF KNOWLEDGE WORKSHOP TECHNOLOGY, Technical Proposal to Bell Canada, SRI No, ISC 73-147, October 8, 1973 (Journal == 19250,)

7b

Subroutines in FTPDRV

(J23703) 30-JUL-74 18:00;;; Title: Author(s): Geoffrey S,
Goodfellow/GSG; Distribution: /JEW([ACTION]); Sub-Collections:
NIC; Clerk: GSG;

Subroutines in FTPDRV

Jim, I have seen that usually there is a "Not Logged In" because some how ftpdrv doesn't seem to make it the first time 'round when its tries for an ICP. Therefore I concluded that the network must not be fully ready to except it, and am trying to have it go to sleep for 30 secs or so when the system, is brought up for things to get a chance to settle down. I have no problem putting the sleep code in, but was unable to complie it, as there seem to be some special subroutines that aren't in the ftpdrv source. I would appreciate it if you could point me at them so as I can give this new idea a try. --Geoff

1

Schedule and Schedule Needs for Documentation of New NLS at Office-1

(J23704) 31-JUL-74 08:58;;; Title: Author(s): Dirk H. Van Nouhuys,
Jeanne M. Beck, Kirk E. Kelley/DVN JMB KIRK; Distribution: /DSM([
ACTION]) CHI([ACTION]) HGL([ACTION]) DIRT([INFO-ONLY]) ;
Sub-Collections: DIRT DPCS SRI-ARC; Clerk: DVN; Origin: <
VANNOUHUYS, QDOCFEC,NLS;2, >, 31-JUL-74 08:54 DVN ;;;;####;

Schedule and Schedule Needs for Documentation of New NLS at Office=1

Effects of Command Changes:

Documentation would like to provide to new users of new NLS at Office=1 a TNLs Cue card, a Primer which shows basic text creation and Sendmail in TNLs, a general Command Syntax, a Description of the Differences between old and new NLS, and a dictionary-like document derived from the Help Data base that we are calling the NLS User's Glossary,

The plex below lists the items from the top two priority levels of (journal,23692,) that must be frozen to finish each document,

Branch 2 gives a trim but reasonable Documentation Production Schedule. After each document in branch one is the date from the schedule when the subject matter needs to be frozen to meet the documentation schedule,

Cuecard (August 2)

Help Command Language,...not mentioned in (23692)

(1a1) =020= =035= Help instead of or in addition to Goto Help, Make the command Help available from any subsystem (feedback,fdbk,01104)

(1a1) Make the user dialog better for the "output to terminal" command and add an output to file option which outputs to a sequential file from the output processor,

(2a2) =062= Typing "U before an address was also disliked by many. The preferred prompt would be B:/A:; (feedback,fdbk,02664), (feedback,fdbk,02777), (feedback,fdbk,02790)

(2b1) =021 New Command Print File CA

(2b1) =022= New command: "print rest <ca>" (constrained as in proposed "print file" command) equivalent to and replacing current "print <ca>"

(2b1) =044= It seems inconsistent that in Sendmail you type "SH" to do (Sh)ow Status but anywhere else you would have to type "SHS" for (Sh)ow (S)tatus, (feedback,fdbk,03340) i.e Change "Status" to a Command word in Sendmail and in the Ident subsystems,

(2b1) =068= needs further study = Editor subsystem is too big resulting in unnecessary alphabetic conflicts, Suggested replacement: Editor, File=Handler, and Terminal Handler, See

Schedule and Schedule Needs for Documentation of New NLS at Office-1

(kudlick,news,1:why) for a preliminary description; a more up-to-date description is forthcoming. Development will study this proposal and make a recommendation, 1d8

(2b1) change the SENDMAIL Command DONE to "SEND (the mail)" 1d9

(2b1) change the SENDMAIL Commands SEND FOR ACTION and SEND for INFO to D[istribute] A[ction (copies to)] and D[istribute] I[nformation (copies to)] 1d10

Primer (Freeze August 9) 1e

(2a2) =062= Typing "U" before an address was also disliked by many. The preferred prompt would be B:/A:
(feedback,fdbk,02664), (feedback,fdbk,02777),
(feedback,fdbk,02790 1e1

(2b1) =022= New command: "print rest <ca>" (constrained as in proposed "print file" command) equivalent to and replacing current "print <ca>" 1e2

(2b1) =072= Expert=expert should not be the default recognition for new users, (feedback,fdbk,02714) 1e3

(2b1) change the SENDMAIL Command DONE to "SEND (the mail)" 1e4

(2b1) change the SENDMAIL Commands SEND FOR ACTION and SEND for INFO to D[istribute] A[ction (copies to)] and D[istribute] I[nformation (copies to)] 1e5

Syntax and Description (Freeze August 30th) of Differences (Freeze August 9) 1f

Help Command Language,,,not mentioned in (23692) 1f1

(1a1) =020= =035= Help instead of or in addition to Goto Help, Make the command Help available from any subsystem
(feedback,fdbk,01104) 1f2

(1a1) =020= =035= Help instead of or in addition to Goto Help, Make the command Help available from any subsystem
(feedback,fdbk,01104) 1f3

(1a1) Make the user dialog better for the "output to terminal" command and add an output to file option which outputs to a sequential file from the output processor, 1f4

(2a2) =062= New definitions of SSEL,DSEL,LSEL 1f5

Schedule and Schedule Needs for Documentation of New NLS at Office-1

- (2b1) =021= Print File CA 1f6
- (2b1) =022= New command; "print rest <ca>" (constrained as in proposed "print file" command) equivalent to and replacing current "print <ca>" 1f7
- (2b1) =044= It seems inconsistent that in Sendmail you type "SH" to do (Sh)ow Status but anywhere else you would have to type "SHS" for (sh)ow (S)tatus, (feedback,fdbk,03340) i.e. Change "Status" to a Command word in Sendmail and in the Ident subsystems, 1f8
- (2b1) =052= Have an option in Output Quickprint to put NO heading on any pages except for the string "Page #" at top-right on each page, (feedback,fdbk,03263) i.e. implement option and change CML to be O[utput] Q[ui]ckprint (OK / N[o headers] (OK / REST) / REST); where REST = C[opies] / F[ile] / A[ppend] ; 1f9
- (2b1) =068= needs further study = Editor subsystem is too big resulting in unnecessary alphabetic conflicts, Suggested replacement: Editor, File-Handler, and Terminal Handler, See (Kudlick,newsubs,i:why) for a preliminary description; a more up-to-date description is forthcoming, Development will study this proposal and make a recommendation, 1f10
- (2b1) =072= Expert=expert should not be the default recognition for new users, (feedback,fdbk,02714) 1f11
- (2b1) Change the CML to replace the entities "window" and "boundary" by the single entity "edge", i.e. S[plit window] H[orizontally] will become I[nsert] E[dge] etc, 1f12
- (2b1) change the SENDMAIL Command DONE to "SEND (the mail)" 1f13
- (2b1) change the SENDMAIL Commands SEND FOR ACTION and SEND for INFO to D[istribute] A[ction (copies to)] and D[istribute] I[nformation (copies to)] 1f14
- User Glossary (Freeze August 23th) 1g
- Help Command Language,..,not mentioned in (23692) 1g1
- (1a1) =020= =035= Help instead of or in addition to Goto Help, Make the command Help available from any subsystem (feedback,fdbk,01104) 1g2
- (1a1) Make the user dialog better for the "output to terminal"

Schedule and Schedule Needs for Documentation of New NLS at Office-1

- command and add an output to file option which outputs to a sequential file from the output processor, 1g3
- (2a2) =053= Must have simple DEX available in new nls, 1g4
- (2a2) =062= New Definitions for LSEL, DSEL, SSEL 1g5
- (2b1) =021= Print File <CA> command 1g6
- (2a2) =094= Altmode should cause filename recognition for a file in Programs directory without typing programs first when loading a program, (feedback, fdbk, 03018) 1g7
- (2b1) =019= In Print Structure commands, when a link with viewspecs is used as an address, the viewspecs should affect the printout, (feedback, fdbk, 03273) 1g8
- (2b1) =022= New command: "print rest <ca>" (constrained as in proposed "print file" command) equivalent to and replacing current "print <ca>" 1g9
- (2b1) =044= It seems inconsistent that in Sendmail you type "SH" to do (Sh)ow Status but anywhere else you would have to type "SHS" for (Sh)ow (S)tatus, (feedback, fdbk, 03340) i.e. Change "Status" to a Command word in Sendmail and in the Ident subsystems, 1g10
- (2b1) =052= Have an option in Output Quickprint to put NO heading on any pages except for the string "Page #" at top-right on each page, (feedback, fdbk, 03263) i.e. implement option and change CML to be O[utput] Q[quickprint] (OK / N[o headers] (OK / REST) / REST); where REST = C[opies] / F[ile] / A[ppend] ; 1g11
- (2b1) =072= Expert=expert should not be the default recognition for new users, (feedback, fdbk, 02714) 1g12
- (2b1) Change the CML to replace the entities "window" and "boundary" by the single entity "edge", i.e. S[plit window] H[orizontally] will become I[nsert] E[dge] etc, 1g13
- (2b1) change the SENDMAIL Command DONE to "SEND (the mail)" 1g14
- (2b1) change the SENDMAIL Commands SEND FOR ACTION and SEND for INFO to D[istribute] A[ction (copies to)] and D[istribute] I[nformation (copies to)] 1g15

Comments:

1h

Schedule and Schedule Needs for Documentation of New NLS at Office=1

The short list under User's Glossary assumes we could write around certain issues, 1h1

In the Difference Document we could also write around some issues to meet deadlines, 1h2

Note the importance of freezing material for the Cuecard (to meet suggested September 7 delivery) and Primer (which can easily get out by September 7th if its content is frozen by August 9th, 1h3

Schedule and Assignments: 2

Week ending August 2 2a

JMB Writing Cuecard, HELP 2a1

DVN Editing Primer, User's Glosary, setting up for printing 2a2

drafts of User's Glossary, Primer to DDSI, 2a3

KIRK Writing on Help, Programs for User's Glossary Production, 2a4

DEADLINES: 2a5

COMMANDS SHOWN ON CUECARD MUST BE FROZEN AT THE END OF THIS WEEK TO MEET SEPT 7 DELIVERY, 2a5a

Week ending August 9 2b

JMB Finishing Cuecard, Reviewing Product of Syntax Generator, 2b1

DVN Editing User's Glossary, rewriting (22852) into Document on differences between Old and New TNLS, 2b2

KIRK writing Changes into Help 2b3

DEADLINES: 2b4

CUECARD DRAFT TO PRINTER THIS FRIDAY TO MEET SEPT 7 DELIVERY 2b4a

Clean Draft of Differences Document to DDSI 2b4b

Clean Draft of Primer to DDSI 2b4c

First run of command syntax generator 2b4d

Week ending August 16th 2c

Schedule and Schedule Needs for Documentation of New NLS at Office=1

| | |
|---|------|
| JMB Editing and Reviewing Product of Syntax Generator, | 2c1 |
| DVN Editing User's Glossary, rewriting (22852) into Document on differences between Old and New TNLS, | 2c2 |
| KIRK Writing Changes into Help | 2c3 |
| DEADLINES: | 2c4 |
| Clean draft of differences document and FINAL draft of primer to DDSI, | 2c4a |
| First run of revised syntax generator | 2c4b |
| Week ending August 23rd | 2d |
| JMB Editing and Reviewing Product of syntax Generator, Editing User's Glossary | 2d1 |
| DVN Editing User's Glossary, Checking and revising COM'd version of Differences Document, | 2d2 |
| COM directives in Command Syntax | 2d3 |
| KIRK Writing Changes into Help, Final generation of User's Glossary from Help | 2d4 |
| DEADLINES: | 2d5 |
| FINAL DRAFT DIFFERENCES TO DDSI | 2d5a |
| Model Draft of Command Syntax to DDSI | 2d5b |
| Week ending August 30th | 2e |
| JMB Editing and Reviewing Product of Syntax Generator, Editing User's Glossary | 2e1 |
| DVN Editing User's Glossary, Double check COM Directives, | 2e2 |
| KIRK Vacation | 2e3 |
| DEADLINES: | 2e4 |
| Clean draft User's Glossary and Command Syntax to DDSI | 2e4a |
| JMB goes back to School | 2e4b |
| Week ending Sept 7th | 2f |

Schedule and Schedule Needs for Documentation of New NLS at Office-1

| | |
|---|------|
| DVN Vacation (?) | 2f1 |
| KIRK Desperate Scramble to get out Glossary, Command Syntax | 2f2 |
| DEADLINES: | 2f3 |
| FINAL COMMAND SYNTAX, USER'S GLOSSARY TO DDSI | 2f3a |
| Comments: | 2g |
| In case of disaster all the documents except the Primer and the Cuecard could be printed on our line printer and reprinted later, | 2g1 |
| Drafts to DDSI should go Wednesday, not Friday, | 2g2 |
| Model Draft means something that looks like the final output we want but may be inaccurate in content, | 2g3 |
| A Clean Draft has content we will stand by; it is to check the printing operation, If the proofs were good we would print it, | 2g4 |
| Editing the User's Glossary normally consists of making change so that entries stand by themselves without the context of HELP. We believe these changes will in general improve <documentation,help,> and plan to make them in the data base file, | 2g5 |

Re 23700, Dumps conflicting with work

(J23705) 31-JUL-74 09:38;;; Title: Author(s): Douglas C.
Engelbart/DCE; Distribution: /MEH([ACTION]) HGL([INFO=ONLY])
JCN([INFO=ONLY]) RWW([INFO=ONLY]) CHI([INFO=ONLY]) DVN([INFO=ONLY]) KIRK([INFO=ONLY]) JDH([INFO=ONLY]) ;
Sub-Collections: SRI=ARC; Clerk: DCE;

Re 23700, Dumps conflicting with work

Regarding Harvey's note (GJOURNAL,23700,) on dumps being done during "prime" time -- Martin is responsible for such operational matters, under Jim Norton. While Jim is gone, Martin is the one; I'll contribute if he needs me,

1

Visit Log: 29 Jul 74, Fred Clayton, SRI, with NIOSH Project

(J23706) 31-JUL-74 10:10;;; Title: Author(s): Douglas C. Engelbart/DCE; Distribution: /JCN([ACTION]) BC([INFO-ONLY]) JHB([INFO-ONLY]) SRL([INFO-ONLY] Susan; you may run into these project people in our wash, office) NDM([INFO-ONLY]) ; Sub-Collections: SRI-ARC; Clerk: DCE;

Visit Log: 29 Jul 74, Fred Clayton, SRI, with NIOSH Project

Dr. Fred Clayton has recently been hired into SRI expressly to work on the new NIOSH project, most of whose personnel will be based at SRI-DC. (For background on this project, see Journal items == 22651,> 22664,> 23466,> 23213,>. Fred's background includes:

A degree in veterinary medicine, one in public health, and also a degree in education.

Most recently he was in the U.S. Public Health Service; the last position therein being at the National Library of Medicine. His responsibility there was Chief of Toxicology Information Services Branch.

Rick Witwer asked if we could give Fred an introductory tour and demo during Fred's get-acquainted visit here at SRI-Menlo. It is possible that the SRI-NIOSH project could take up usage of our AKW Utility some time after it gets under way, and Clayton would be one of those to help evaluate.

I gave him a tour of the Center, and a basic intro/demo to DNLS, Journal, publication, XDOC, etc. We spent about 1 1/2 hours together. He had some typical documents showing the kind of things that their project will have to produce == material that supports policies and rulings laid down by the government authorities regulating working conditions as they affect occupational safety and health.

Fred began to list many places in the health-services world where it would seem that this type of system could be of benefit, but for lack of time I deferred further discussion along that line (Later, let's get some leads from him.)

He had with him several publications of the type that apparently the SRI-NIOSH Project will be publishing. We didn't have time for me to look at them carefully, but it would be worthwhile learning more about the NIOSH publication practices and needs.

I gave him one copy each of the following:

D. C. Engelbart, AUGMENTING HUMAN INTELLECT: A CONCEPTUAL FRAMEWORK, SRI Project AFOSR=3223, October 1962 (XDOC == 3906,)

D. C. Engelbart and W. K. English, "A Research Center for Augmenting Human Intellect", AFIPS Proceedings, Fall Joint Computer Conference, 1968, Washington, D.C. (XDOC == 3954,)

D. C. Engelbart, "Intellectual Implications of MULTI-ACCESS COMPUTER NETWORKS", A paper for the Proceedings of The Interdisciplinary Conference on Multi-Access Computer Networks in Austin, Texas, April 1970, (XDOC == 5255,)

Visit Log: 29 Jul 74, Fred Clayton, SRI, with NIOSH Project

D, C, Engelbart, COORDINATED INFORMATION SERVICES for a DISCIPLINE- OR MISSION-ORIENTED COMMUNITY, paper presented at the Second Annual Computer Communications Conference, San Jose, California, 24 January 1973, (Journal, dated 12 Dec 72 == Mjournal, 12445,1: xhmz)

6d

D, C, Engelbart, R, W, Watson, J, C, Norton, THE AUGMENTED KNOWLEDGE WORKSHOP, paper presented at the National Computer Conference, New York City, June 1973, (IJOURNAL, 14724,)

6e

Augmentation Research Center, "Output Processor Users' Guide," 23 Aug 73, (Journal == 12209,)

6f

JEW 31-JUL-74 12:35 23707

FTPDRV Unresolved Symbols

(J23707) 31-JUL-74 12:35;;; Title: Author(s): James E. (Jim)
White/JEW; Distribution: /GSG([ACTION]) ; Sub=Collections: SRI=ARC;
Clerk: JEW;

FTPDRV Unresolved Symbols

Geoff== The FTPDRV source, an NLS file, is self-contained. You should have no unresolved symbols. Specifically, what problems are you experiencing, i.e, what symbols can't be resolved? ==Jim

1

FTPDRV Problem/Patch

(J23708) 31-JUL-74 19:31;;; Title: Author(s): Geoffrey S,
Goodfellow/GSG; Distribution: /JEW([INFO=ONLY]); Sub=Collections;
NIC; Clerk: GSG;

FTPDRV Problem/Patch

The problem with FTPDRV at present, is that it always fails on the first try, and leaves a "Not Logged In" lying around, that can only be flushed by going into MDDT and doing magic with the network code. I figure that if I make it sleep for 30 secs, or so, before doing anything, that this problem will hopefully go away. My problem before was that I was trying to compile the in macro, when actually it is written in Fail. Another thing,,in the source that is in <NET> (brought back by archive) , you have ARCG typed in right after the thing logges in, and in the .log file in system, it has ;RCG entered, and wondered if this was an earlier version of it, and or maybe it was a typing error. I have put the sleep code, in and left the stuff in net, if you'd like to take a peek, ==Geoff

1

RLL 31=JUL=74 19:41 23709

arrived

(J23709) 31=JUL=74 19:41;;; Title: Author(s): Robert N.
Lieberman/RLL; Distribution: /NDM([INFO=ONLY]) ; Sub=Collections:
SRI=ARC; Clerk: RLL;

arrived

Dean: Well I am here with the gang (both family and ARcers), In a frantic last minute selling I sold the Volvo for 2200, much less than I hoped or should have sold it for bt could not do better , Sold it at 8:45 PM the nigt before flying out of Maryland, Roofers came, painters finished (thanksto your recommendation, it looks lpretty good)and the movers arrive thursday, Wow what a week!!!,

What is up on your demo??? et me know I will be checking in ever so often the rest of the week,

Rob

1

JEW 1-AUG-74 08:22 23711

FTPDRV Ident

(J23711) 1-AUG-74 08:22;;; Title: Author(s): James E. (Jim)
White/JEW; Distribution: /GSG([INFO=ONLY]) ; Sub=Collections;
SRI=ARC; Clerk: JEW;

FTPDRV Ident

Geoff-- As you noticed, <NET>FTPDRV,NLS does send ident=ARCG, and has never done otherwise, as far as I can recall. ";RCG", unless you saw i consistently in the log, sounds like a printer glitch. Sorry about the MACRO/FAIL confusion. Glad you got your mod in OK. --Jim

1

Party For Ferg at Rod's Place

(J23712) 1-AUG-74 15:05;;; Title: Author(s): Jeffrey C. Peters/JCP;
Distribution: /SRI=ARC([ACTION]) ; Sub=Collections: SRI=ARC; Clerk:
JCP;

Party For Ferg at Rod's Place

Friday after work at Rod's house, there will be a going away party for Ferg and Dalin. All are invited, and you should bring whatever food, drink, or etc, that you are inspired to bring. The address is 535 Encina. From SRI go north on Middlefield past Marsh Road. In a few blocks you will reach Encina. Turn right and go almost to the end where you will see a red mailbox on the left side of the road -- That's the place!! Hoping to see everybody there ---

Latest Liaison Mailing List

(J23728) 3-AUG-74 16:55;;; Title: Author(s): Elizabeth J. (Jake)
Feinler/JAKE; Distribution: /SRI=ARC([INFO=ONLY]) ; Sub-Collections:
SRI=ARC; Clerk: JAKE; Origin: <FEINLER>LIAISON,NLS;1, 3-AUG-74
16:34 JAKE ;;;;<FEINLER>LIAISON=3,NLS;1, 29-JUL-74 16:07 JAKE ;####;

Latest Liaison Mailing List

This is the latest list I have available for contacting Network Liaison. There will be two files maintained in <NETINFO> at OFFICE=1 called: LIAISON.TXT and LIAISON=SNMSG.TXT. These will contain the latest information - one with full addresses and the other (LIAISON=SNMSG) suitable for sndmsg distribution. Feel free to ftp them at any time. If you do not have a directory at OFFICE=1 you may use NICGUEST for ftp purposes ONLY.

Latest Liaison Mailing List

NETWORK LIAISON GROUP MEMBERSHIP LIST

ENTRIES ARE IN THE FOLLOWING FORMAT:

| Name | NIC Ident | Network Mail Address |
|-------------------|-----------|-----------------------|
| U.S. Mail Address | | Phone(s) |
| City, State, Zip | | Organization Ident(s) |

| | | |
|--|-----|--|
| BAIR, James H, Augmentation Research Center Stanford Research Institute 333 Ravenswood Avenue Menlo Park, California 94025 | JHB | BAIR@SRI-ARC (415) 326-6200 ext 3614 SRI-ARC |
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| BARKALOW, Thomas J, M.I.T, Lincoln Lab 244 Wood Street Lexington, Massachusetts 02173 | TJB | LINCOLN@BBN-TENEX (617) 862-5500 ext 5545 LL-TSP |
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| BINDER, Richard University of Hawaii The ALOHA System 2540 Dole Street Honolulu, Hawaii 96822 | RB | BINDER@ISI (808) 948-7066 HAWAII-ALOHA |
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| BLANC, Robert P, National Bureau of Standards Institute for Computer Sciences and Technology Washington, D.C, 20234 | RPB | BLANC@BBN (301) 921-2601 NBS-ICST |
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UCLA=CCN

10

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13

Latest Liaison Mailing List

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| CROCKER*, Steve D, Advanced Research Projects Agency 1400 Wilson Boulevard Arlington, Virginia 22209 * Group Coordinator | SDC2 | CROCKER@USC=ISI (202) 694-5037 (202) 694-5922 ARPA=TIP ARPA=DMS | 14 |
| DAVIDSON, John University of Hawaii The Aloha System 2540 Dole Street Honolulu, Hawaii 96822 | JD | DAVIDSON@I4=TENEX (808) 948-7490 ALOHA=TIP HAWAII=500 | 15 |
| DEUTSCH, L, Peter Xerox Palo Alto Research Center 3180 Porter Drive Palo Alto, California 94304 | LPD | DEUTSCH@PARC=MAXC (415) 493-1600 ext 579 PARC=MAXC | 16 |
| DONNELLEY, James E. (JED) Lawrence Livermore Lab L-307 Box 808 Livermore, California 94550 | JED | JED@BBN=TENEX (415) 447-1100 ext 3406 LLL=RISOS | 17 |
| ELLISON, Carl M, University of Utah Computer Science Department 3160 Merrill Engineering Building Salt Lake City, Utah 84112 | CME | ELLISON@UTAH=10 (801) 581-6895 UTAH=10 | 18 |
| FALL, Leonard B, Aeronautical Systems Division Computer Center Bldg, 676, Area B Wright-patterson AFB Ohio 45433 | LBF | Network Address Not Known (513) 255-6247 WPAFB | 19 |

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| | | | |
|---|------|---|----|
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| FINK, Robert L, Lawrence Berkeley Laboratory Bldg, 50A, Rm, 1143A Berkeley, California 94720 | RLF | Network Address Not Known (415) 843-2740 ext 5692 LBL | 21 |
| GALLEY, Stuart W, M.I.T. Project MAC = PTD 545 Technology Square, Room 205 Cambridge, Massachusetts 02139 | SWG | SWG@MIT=DMS (617) 253-1418 MIT=DMS | 22 |
| GOLDEN, Jeffrey P, M.I.T. Project MAC Automatic Programming Division 545 Technology Square Cambridge, Massachusetts 02139 | JPG | JPG@MIT=ML (617) 253-5877 MIT=ML | 23 |
| GUMPF, Jeff A, Case Western Reserve University Computing and Information Science Division Crawford Hall 10900 Euclid Avenue Cleveland, Ohio 44106 | JAG2 | GUMPF@CASE=10 (216) 368-2984 CASE=10 | 24 |
| HAINES, Ted C, M.I.T. Lincoln Lab = 67 Group 244 Wood Street Lexington, Massachusetts 02173 | TCH | HAINES@LL=67 (617) 862-5500 ext 7474 LL=67 | |

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| | | | |
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| | | | 25 |
| HARSLEM, Eric F, The Rand Corporation Computer Science Department 1700 Main Street Santa Monica, California 90406 | EFH | HARSLEM@RAND=RCC (213) 393-0411 ext 7320 RAND=RCC | |
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| HART, James Ames Research Center Mail Stop 233-9 Moffett Field, California 94035 | JH | HART@AMES=67 (415) 965-5935 or 5951 AMES=11 | |
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| HATHAWAY, A. Wayne NASA Ames Research Center Mail Stop 233-9 Moffett Field, California 94035 | AWH | HATHAWAY@AMES=67 (415) 965-6033 (408) 736-7439 AMES=6 AMES=TIP | |
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| HEARN, Anthony C, University of Utah Department of Physics Salt Lake City, Utah 84112 | ACH | HEARN@UTAH=10 (801) 581-8502 UTAH=10 | |
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| HIGGINSON, Peter L, University College, London Department of Statistics and Computer Science 44 Gordon Square London WC1H 0PD ENGLAND | PLH | UK=ICS@SRI=ARC 01=387-3421 ext 261 (Engl.) LONDON=TIP | |
| | | | 30 |
| HYDE, David L, Air Force Weapons Lab AFWL/ADP Kirtland Air Force Base | DLH | AFWL@I4=TENEX (505) 247-1711 ext 3803 AFWL=TIP | |

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| Carnegie-Mellon University Computation Center Schenley Park Pittsburgh, Pennsylvania 15213 | (412) 621-2600 ext 683 CMU=CC | 37 |
| KNIGHT, Thomas F. (Tom) M.I.T. Artificial Intelligence Laboratory 545 Technology Square Cambridge, Massachusetts 02139 | TFK TK@MIT=AI (617) 253-6765 MIT=AI | 38 |
| KYLE, Norman R. USAMERDC Commanding Officer/USAMERDC STSFBC Fort Belvoir, Virginia 22060 | NRK Network Address Not Known (703) 664-5511 BELVOIR | 39 |
| LACOSS, Richard T. Computer Corporation of America 575 Technology Square Cambridge, Massachusetts 02139 | RTL LACOSS@USC=ISI (617) 253-7858 LL=ANTS | 40 |
| LAWRENCE, Thomas F. Rome Air Development Center (ISIM) Griffiss Air Force Base, Rome, New York 13440 | TFL LAWRENCE@OFFICE=1 (315) 330-3857 RADC=TIP | 41 |
| LEICHNER, Gene Systems Control, Inc. 1801 Page Mill Road Palo Alto, California 94304 | EL SCi@USC=ISI (415) 327-9333 SCI | 42 |
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| | | 43 |
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| MARTINEZ, Robert L, Tymshare, Inc, 10201 Bubb Road Cupertino, California 95014 | BOBM | MARTINEZ@OFFICE=1 (408) 257-6550 ext 301 TYMSHARE=TIP |
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| MCCONNELL, John W, NASA Ames Research Center Institute for Advanced Computation 1095 E, Duane Ct, Sunnyvale, California 94086 | JWM | JOHN@I4=TENEX (408) 735-0635 I4=TENEXB I4=ELF |
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Latest Liaison Mailing List

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| REESE, Milton H, Fleet Numerical Weather Central Monterey, California 93940 | MHR | REESE@BBN-TENEX (408) 646-2817 FNWC=TIP FNWC | | 61 |
| RETZ, David L, Speech Communications Research Laboratory, Inc, 800 Miramonte Drive Santa Barbara, California 93109 | DLR | RETZ@USC=ISI (805) 965-3011 SCRL=ELF | | 62 |
| RIEBER=MOHN, Dag The Norwegian Seismic Array P.O. Box 51 N2007 Kjeller NORWAY | DRM | NORSAR=TIP@SRI=ARC (002) 714570 (Norway) NORSAR=TIP | | 63 |
| ROBEY, Wayne R, Purdue University Dept. of Electrical Engineering West Lafayette, Indiana 47907 | WRR | PURDUE@I4-TENEX (317) 493-1429 PURDUE | | 64 |
| ROMANELLI, Michael J, Ballistic Research Laboratories Attn: ANX BR-XA Aberdeen Proving Ground Maryland 21005 | MJR | BRL@OFFICE=1 (301) 278-4574 BRL | | 65 |
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Latest Liaison Mailing List

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| SEGOVICH, Fred A, University of Illinois Center for Advanced Computation Urbana, Illinois 61801 | FAS KELLEY@BBN-TENEX (217) 333-8150 ILL-CAC ILL-NTS | 67 |
| SMITH, J, A, USAF-ETAC Building 159 Navy Yard Annex Washington, DC 20333 | JAS USAFETAC-SY@USC-ISI (202) 433-3911 ETAC-TIP | 68 |
| SPIES, Herbert A, Eglin AFB ADTC/TSX Florida 32542 | HAS2 Network Address Not Known (904) 882-3542 (904) 882-5498 EGLIN | 69 |
| STOKES, Adrian V, University College, London Department of Statistics and Computer Science 44 Gordon Square London WC1H 0PD ENGLAND | AVS KIRSTEINE@USC-ISI 01-387-3421 ext 253 (Engl,) LONDON LONDON-TIP LONDON-VDH | 70 |
| STOUGHTON, Ronald M, Computer Systems Laboratory University of California at Santa Barbara Santa Barbara, California 93106 | RMS STOUGHTN@UCSB-MOD75 (805) 961-3793 (805) 961-3221 UCSB-MOD75 | 71 |

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 DOCC
 NCOIC System 1
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80

Bug in LEVEL=ADJUST

(J23729) 3-AUG-74 23:10;;; Title: Author(s): Kirk E. Kelley/KIRK;
Distribution: /BUGS([ACTION]) ; Sub-Collections: SRI-ARC BUGS;
Clerk: KIRK;

Bug in LEVEL=ADJUST

In the Insert Statement command (and I presume wherever L; appears, typing "d<"A>u" looks good but does not place the statement up a level, but inserts it at the same level,

1

(J23730) 4-AUG-74 04:29;;; Title: (Expedite) Author(s): Geoffrey
S. Goodfellow/GSG; Keywords: ; Sub=Collections: NIC; RFC# ; Clerk: GSG;

<MJOURNAL>23730,NLS;1, 5-AUG-74 05:32 XXX ;;; (Expedite)
Author(s): Geoffrey S, Goodfellow/GSG; Keywords: ; Sub-Collections:
NIC; RFC# ; Clerk: GSG;

Message subsystem bug

(J23731) 5-AUG-74 09:38;;; Title: Author(s): Robert N,
Lieberman/RLL; Distribution: /NDM([ACTION]) ; Sub-Collections:
SRI=ARC; Clerk: RLL;

Message subsystem bug

Dean, your message subsystem is giving me the 'file not on line '
business again. Le me know when it is ready, Thanks,

1

'OPERATOR' MESSAGES

(J23732) 5-AUG-74 12:18;;; Title: Author(s): Jeffrey C. Peters/JCP;
Distribution: /SRI-ARC([INFO-ONLY]) ; Sub-Collections: SRI-ARC;
Clerk: JCP;

'OPERATOR' MESSAGES

We have re-established the <operator> directory at SRI-ARC. It now exists expressly as a mailbox to receive user requests and problem reports. Anything sent to <operator> will reach Jeff, Mark, and Marcia and will be handled by whoever is appropriate. You may, as usual, direct these messages to one or all of us instead, but at least the <operator> mailbox is now available for message sending.

1

Lineprocessor, SRI purchase,

(J23733) 5-AUG-74 13:13;;; Title: Author(s): Martin E. Hardy/MEH;
Distribution: /TLH([INFO=ONLY]) JCN([INFO=ONLY]) DCE([
INFO=ONLY]) RWW([INFO=ONLY]) ; Sub-Collections: SRI=ARC; Clerk:
MEH; Origin: < HARDY, SRI=LP,NLS;10, >, 5-AUG-74 08:28 MEH
;;;####;

Lineprocessor, SRI purchase,

SRI

MEMO

TO: Bob Wing

DATE: 2 AUG 74

FROM: Martin Hardy

LOCATION: J-2072

SUBJECT: SRI Capital Purchase of one Lineprocessor, Mouse,
and Keyset.CC: ryw
tlh
dce
jcn
rww

In anticipation of projected needs the Augmentation Research Institute (ARI) has received approval to purchase several Lineprocessors, Mice, and Keysets on SRI account 12120 work order 316.

This memo is a request to allocate \$2,500 of SRI capital equipment funds to purchase one Lineprocessor, Mouse, and Keyset purchased on the 12120 work order 316 account. This equipment will be installed at SRI for use by Tom Humphrey who is the SRI architect associated with the ARC Office-1 computer facility.

Lineprocessor, SRI purchase.

(J23734) 5-AUG-74 13:13;;; Title: Author(s): Martin E. Hardy/MEH;
Distribution: /TLH([INFO=ONLY]) JCN([INFO=ONLY]) DCE([
INFO=ONLY]) RWW([INFO=ONLY]) ; Sub-Collections: SRI-ARC; Clerk:
MEH; Origin: < HARDY, SRI-LP,NLS;10, >, 5-AUG-74 08:28 MEH
;;;####;

Lineprocessor, SRI purchase,

SRI

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tjh
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title is what when I start typing

(J23735) 5-AUG-74 14:39;;; Title: (Unrecorded) Title: Author(s):
Kirk E. Kelley/KIRK; Distribution: /KIRK([ACTION]) ;
Sub-Collections: SRI=ARC; Clerk: KIRK;

title is what when I start typing

test message

New method of updating origin statements

(J23736) 6=AUG=74 00:14;;; Title: Author(s): Kirk E. Kelley/KIRK;
Distribution: /CHI([INFO=ONLY]) KEV([INFO=ONLY]) ;
Sub-Collections: SRI=ARC; Clerk; KIRK;

New method of updating origin statements

The following is the method for updating information in an origin statement I wish to implement. It is upwardly compatible with the current method and current files.

Currently there is a right delimiter ";;;" and everything to the left of that delimiter is deleted and replaced by the new
 < USERNAME, FILENAME,EXT;12, > DATE TIME IDENT
 This procedure would not change,

The new method would only operate on an optional left delimiter added by the user ";>". If this left delimiter is found, then only text between the left and right delimiters will be replaced by the new information. The left delimiter will be maintained,

If the left delimiter is not found, it will work as it does now. The left delimiter will not be added,

If the right delimiter is not found and the origin statement is unnamed, it will work as it does now. That is, a right delimiter will be created and the information inserted at the beginning of the statement. The left delimiter will not be added,

If the right delimiter is not found and the origin statement is named, it is assumed the user deleted the origin information on purpose and the origin statement will therefore not be modified,

If there is no right delimiter, there is no purpose in finding a left delimiter,

The two characters in the left delimiter ";>" are chosen for four reasons. First of all, they would rarely (if ever) unintentionally occur together before four semicolons. Secondly, if the user wished only to name the origin statement and have the other origin information immediately follow, the colon in the right delimiter preceded by one word would do that for him automatically (default name delimiters are to be NULL colon, right?). Third, if a viewing system (query/help) wishes to use the first link in an addressed statement to define the view from that point, the above left delimiter would keep such a system from getting in a loop when encountering a named origin statement. Four, it does not look too bad,

NAME;> < USERNAME, FILENAME,EXT;12, > DATE TIME IDENT ;;;;

Response to questions about Training

(J23737) 6-AUG-74 08:38;;; Title: Author(s): James H. Bair/JHB;
Distribution: /JCN([INFO=ONLY]) ; Sub=Collections: SRI=ARC; Clerk:
JHB;

Response to questions about Training

Frank, Thanks for your questions,

1) Previous exposure to NLS is OK with two considerations: That I know what people have covered (their capability), and that this exposure be consistent for all individuals in the course (as much as possible),

2) From experience we know that it is very important that each person in the class have a terminal available in the conference room. This also provides the basis for a more interesting, experiential learning situation. That's it for a good start. Sincerely, Jim Bair

1

Short Bibliography on COBOL Aids

(J23738) 6=AUG=74 14:46;;; Title: Author(s): Harvey G. Lehtman/HGL;
Distribution: /RWW([ACTION]) JML([ACTION] Please find or order
the noted items while I'm away.) ; Sub=Collections: SRI=ARC; Clerk:
HGL; Origin: < LEHTMAN, COBOL,NLS;2, >, 6=AUG=74 14:43 HGL
;;;####;

Short Bibliography on COBOL Aids

The following references may be useful in our evaluation of existing COBOL programmers interfaces. Those marked with an asterisk are available neither through the SRI or Stanford libraries and sound promising enough to try to find.

Computer World

- "Must COBOL be ineffeicient?" Computer World 7:11 20 June 74 1a1
- "COBOL Clinic" Computer World 7:16 21 Nov 74 1a2
- "COBOL Clinic" Computer World 8:16 6 Feb 74 1a3
- "COBOL Clinic counterpoints" Computer World 8:80 27 Feb 74 1a4
- "COBOL Clinic counterpoints" Computer World 8:16 6 Mar 74 1a5
- "Structured programming does work in COBOL" Computer World 8:10 27 Mar 74 1a6

Data Management (at Stanford Library)

- Sider, "The right way to implement a COBOL Program" Data Management 11:22=3 Oct 73 1b1
- Sider, "The wrong way to implement a COBOL Program" Data Management 11:37=9 Aug 73 1b2

Computer Decisions

- Goetz, "Soup up your proggmmers with COBOLaids" Computer Decisions 5:8=12 Mar 73 1c1
- * EDP Analyzer (Also referred to in Goetz,.) 1d
- "COBOL Aid Packages" EDP Analyzer 10:1=14 May 72 1d1
- "Modular COBOL Programming" EDP Analyzer 10:1=14 July 72 1d2
- "On-line Development of COBOL Programs" EDP Analyzer 10:1=15 June 72 1d3
- Please find copies of these articles at some library or else through the publisher: 1d4
- EDP Analyzer 1d4a
- 925 Anza Ave, 1d4b

Short Bibliography on COBOL Aids

Vista, CA 92083

1d4c

* Book (Originally appeared in Data Processing Digest which is in
neither library. Recommended also by Goetz.)

1e

Naftaly, et al, COBOL Support Packages, J. Wiley, publisher,

1e1

My Plants Will Need You

(J23739) 6=AUG=74 14:54;;; Title: Author(s): Harvey G. Lehtman/HGL;
Distribution: /EKM([ACTION]) ; Sub=Collections: SRI=ARC; Clerk:
HGL;

My Plants Will Need You

Please take care of my plants (in both my office and in Susan Lee's office.) They get water on Monday, Wednesday and Friday if they need it. My address in Maui will be: Hale Maui Apartment Hotel, P.O. Box 516, Lahiana, Maui, Hawaii 96761. The phone is (808) 669-6312. Will return either 22 August or 26 August. Think positively about the talks. Thanks.

1

sug on copy file command

(J23740) 6=AUG=74 20:06;;; Title: Author(s): Robert N.
Lieberman/RLL; Distribution: /FDBK([ACTION]) ; Sub=Collections:
SRI=ARC; Clerk: RLL;

sug on copy file command

When copyin file (copy file command) and one gives a new file name the statement zero in the new file is a copy of statement of the old file. Thus, the old file name and directory appears, this, of course, disappears when one does an update. The suggestion: perhaps it would be better to replace file name in statement zero with the new file immediately. One is not immediately sure which file you really have up.

1

Meeting of development on Aug 16

(J23741) 7-AUG-74 08:44;;; Title: Author(s): Richard W. Watson/RWW;
Distribution: /NPG([ACTION]) DVN([ACTION]) KIRK([ACTION])
JMB([ACTION]) ; Sub=Collections: SRI-ARC NPG; Clerk: RWW;

Meeting of development on Aug 16

I would like to have a meeting to review what happened at the Alabama meeting and to see where we are relative to all the NSW tasks on Friday August 16 at 2:00, Dick

1

DVN 7-AUG-74 11:08 23743

NSW Fiche Problems: Reply to 23742

(J23743) 7-AUG-74 11:08;;; Title: Author(s): Dirk H. Van
Nouhuys/DVN; Distribution: /NDM([ACTION]) EKM([INFO-ONLY]) RWW(
[INFO-ONLY]) DCE([INFO-ONLY]) JCN([INFO-ONLY]) ;
Sub=Collections: SRI=ARC; Clerk: DVN;

NSW Fiche Problems: Reply to 23742

Well, that's too bad,

1

Now that we atleast have a figure to compare with, I will go back to DDSI and atleast talk about whether they can offer a competitive price. Would stick fonts satisfy Carlson?

2

I would like one of us rejournalize your note to get it into the DPCS subcollection wth some more retrievable title, like say "NSW Fiche format needs", OK?

3

RWW 7-AUG-74 14:42 23744

bugs

(J23744) 7-AUG-74 14:42;;; Title: Author(s): Richard W. Watson/RWW;
Distribution: /FDBK([ACTION]) ; Sub-Collections: SRI-ARC; Clerk:
RWW;

bugs

Two bugs. In the calculator the accumulator value no longer shows up in the right hand corner and should. Second, jump file return has a bug as when you try to move around the ring to go back by hitting space bar after about three hits it just goes and then gives an error message.

1

acoustic couplings

(J23745) 7=AUG=74 16:08;;; Title: Author(s): Sandy L. Johnson/SLJ;
Distribution: /SRI=ARC([ACTION]); Sub=Collections: SRI=ARC; Clerk:
SLJ;

acoustic couplings

if you have a brown super-simulated anderson-jacobson acoustic coupler at home, please bring it it immediately and exchange it for on of the novations i have in supply closet,,,we have to return the two anderson jacobsons, thank you, miranda,

1

DRAFT: Submarine Detection...

(J23746) 8-AUG-74 08:36;;; Title: Author(s): N, Dean Meyer/NDM;
Distribution: /DCR2([INFO=ONLY]) ; Sub-Collections: SRI=ARC; Clerk:
NDM; Origin: < MEYER, 43450,NLS;1, >, 8-AUG-74 08:34 NDM
;;;####;

DRAFT: Submarine Detection...

Background

- I. This is the first part of a simple report used to demonstrate use of a distributed file system. The report consists of three parts which are distributed among various computers connected to the ARPANET. 1a
- II. The demonstration will involve collection of the three parts of the report (of which this is the second part) and merger of them together to form the final report. The various parts will be gathered together in a site independent manner. 1b
- III. The completed report will then be transmitted to its destination using the network mail service. To complete the demonstration the report will be received and read at the destination. 1c

Alternatives 2

System A 2a

Description 2a1

This system is based on strategic placement of under-water radar scanning devices... 2a1a

Costs 2a2

| | | |
|------------------|--------------|------|
| Planning | \$48,750,000 | 2a2a |
| Surveying | 3,500,000 | 2a2b |
| Radar scanners | 23,500,000 | 2a2c |
| Central facility | 149,000,000 | 2a2d |
| Computers | 850,000,000 | 2a2e |

Scheduling 2a3

| | | |
|--------------|-----------|------|
| Planning | 12 months | 2a3a |
| Construction | 48 | 2a3b |
| Debugging | 9 | 2a3c |

=====
=====

DRAFT: Submarine Detection...

SCHEDULE

```

=====
=====
Planning      :-----
Construction:
-----
Debugging    :
-----
=====
=====
Fiscal year  '76          '77          '78          '79
'80
=====
=====
    
```

2a4

System B

2b

Description

2b1

This system is based on a new submarine detecting device which should minimize the chance of errors and so make analysis much easier...

2b1a

Costs

2b2

| | | |
|------------------|--------------|------|
| planning | \$78,000,000 | 2b2a |
| Surveying | 3,500,000 | 2b2b |
| New Detectors | 223,500,000 | 2b2c |
| Central facility | 149,000,000 | 2b2d |
| Computers | 475,000,000 | 2b2e |

Scheduling

2b3

| | | |
|--------------|-----------|------|
| Planning | 20 months | 2b3a |
| Construction | 40 | 2b3b |
| Debugging | 7 | 2b3c |

```

=====
=====
SCHEDULE
=====
=====
Planning      :-----
    
```

DRAFT: Submarine Detection...

Construction;

Debugging ;

=====

=====

Fiscal year '76 '77 '78 '79

'80

=====

=====

2b4

Recommendation

3

Given the extreme importance of this project in maintaining our defensive security, we feel that ...

3a

JHB 8=AUG=74 11:32 23747

Secondary distribution of Net Liasison Mailing List

(J23747) 8=AUG=74 11:32;;; Title: Author(s): James H. Bair/JHB;
Distribution: /DCE([ACTION]) ; Sub=Collections: SRI=ARC; Clerk:
JHB;

Secondary distribution of Net Liasison Mailing List

Is this everything you needed?

Secondary distribution of Net Liaison Mailing List

JAKE 3=AUG=74 16:55 23728
Latest Liaison Mailing List

Location: (GJOURNAL, 23728, 1:w)
*****Note: [INFO=ONLY] *****

Comments: This is the latest list I have available for contacting Network Liaison. There will be two files maintained in <NETINFO> at OFFICE=1 called: LIAISON.TXT and LIAISON=SNMSG.TXT. These will contain the latest information - one with full addresses and the other (LIAISON=SNMSG) suitable for sndmsg distribution. Feel free to ftp them at any time. If you do not have a directory at OFFICE=1 you may use NICGUEST for ftp purposes ONLY.

1

1a

(J23748) 8=AUG=74 13:53;;; Title: Author(s): Kenneth E. (Ken)
Victor/KEV; Distribution: /RJC([INFO=ONLY]); Sub-Collections:
SRI=ARC; Clerk: KEV;

i received your message re: update tadc directory

1

Visit log, 1 - 2 Aug 74, Dan Garigan, Consultant to the Oregon State
Legislature

(J23749) 9-AUG-74 08:25;;; Title: Author(s): James H. Bair/JHB;
Distribution: /PROF([INFO=ONLY]); Sub=Collections: SRI=ARC PROF;
Clerk: JHB; Origin: < BAIR, VISITLOG,NLS;4, >, 9-AUG-74 08:14
JHB ;;;####;

Visit log, 1 - 2 Aug 74, Dan Garigan, Consultant to the Oregon State Legislature

Visit log, 1 - 2 Aug 74, Dan Garigan, Consultant to the Oregon State Legislature in Legislative Information Sysytems,

His company =
 Sysytem Technology Co.,
 6830 River Rd,
 Salem, Ore,

Background;

UCLA: Engineer in system simulation and cybernetics, active in the development of the Sigma 7;

Univ. of Missouri: developed state wide teleporocessing network on 371-55, Director of facility;

U of Chicago: academic background (no PhD);

Present: As consultant and independent bidder, did the Data base design for a health information system; Consultant in the planning of a Legislative Management info system; Worked on \$250K grant for a state judicial system, "Judicial Statutes Project"

Present (and reason for visit):

Oregon Legislative Information System (OLIS)

700k for system development plan;

Bill drafting (Currently, use 3 terminals for IBM's ATMS -- temporary?)

Legislative measure status

Text retrieval

2 RFPs sent out by Technology Committee Staff (?);

1) Text Retrieval System

Dan was an evaluator, possibilities were STAIRS, Battelle's BASIS 70, Boeing, and IBM

2) Automated Textual Data Bases --Preliminary System Design

Data base eg, = court decisions, Dan and the Computer

Visit log, 1 - 2 Aug 74, Dan Garigan, Consultant to the Oregon State Legislature

Science Corp. lost bid, primarily because they did not include a cost-benefit analysis ("not appropriate"). The Oregon Research Institute also bid, 1c1b2a

Statutes are already being converted into computer readable form, 1c1b2b

Organization of Legislature related to project: 1d

printing Task Force Administrative Comm, Technology Comm, 1d1

Coordinator - Bill Stow 1d1a

System Development Staff 1d1a1

Claudel & Miles (programmers) 1d1a1a

User Rep, - Steve Korsak 1d1b

Senate House Staff 1d1b1

History of Project: 1e

Oregon has not sent out RFPs to acquire such software systems before. Charles received the two that are mentioned. IBM has a strong foothold in the state and has been bidding on the RFPs as well as supporting some of their present DP work. They are trying to sell ATMS on a larger scale among other things. HOWEVER, somehow, particularly among the technical staff, a dissatisfaction has developed, and, the way Dan relates it, the original proposals have not been accepted and the whole plan for the next two years is up in the air. This is what prompted him to contact us, 1e1

Events during visit: 1f

Met with JHB -- received demo and hands on experience throughout the day, for a few hours on Fri, as well. We then went to lunch with DCE, CHI, HGL, and JHB. The major portion of the afternoon was spent with DCE establishing the background and philosophy of AKW, the community concept, and the current expansion to include other organizations in the bootstrapping process via a community of architects, 1f1

The logistics of subscribing to the Utility were described, noting that the service is experimental. It was suggested that

Visit log, 1 - 2 Aug 74, Dan Garigan, Consultant to the Oregon State
Legislature

Dan consider the architect role and obtaining support for a
developmental subscription,

1f2

Follow-on Plans:

1g

Dan was pumped up with as much hands on experience, lore, and
tactical info as possible so that he could go back and
represent NLS and our strategies to those people who could
respond. He will talk in particular to Bill Stow about
possible involvement. Dan does want us to come to Salem to
make a presentation, although we emphasized that we do not make
any sales pitches, we will keep in touch,

1g1

RLL 9-AUG-74 10:43 23750

A new jump command suggestion.

(J23750) 9-AUG-74 10:43;;; Title: Author(s): Robert N.
Lieberman/RLL; Distribution: /FDBK([ACTION]) JHB([ACTION]) ;
Sub-Collections: SRI=ARC; Clerk: RLL;

A new jump command suggestion,

I have often found that I wanted a window view showing the last (tail) part of the plex. Jump to tail shows only the tail statement and what follows. I suggest we have another jump (e.g. jump to full tail) that would have the tail statement as the last line of the window, this would give a full screen view of the last part of the plex. Of course it would obey viewspecs. A more general set of jump commands would be a tjump, where tjump noun does the same as jump noun but positions the bugged (or addressed) statement at the tail(end, bottom) of the window, Rob

1

JHB 9-AUG-74 11:03 23751

New NLS Bug in Return Ring

(J23751) 9-AUG-74 11:03;;; Title: Author(s): James H. Bair/JHB;
Distribution: /FDBK([ACTION]) CHI([ACTION]) RWW([INFO-ONLY])
JCN([INFO-ONLY]) ; Sub-Collections: SRI=ARC; Clerk: JHB;

New NLS Bug in Return Ring

This is an example of the kind of thing that should be fixed before applications accepts the New version of NLS.

New NLS Bug in Return Ring

New NLS Bug:

This is an attempt to accurately document a recurring problem with the hope that something will be done, and to help as much as I can before bitching about bugs that don't seem to get fixed,

1
1a

Situation: 2 hrs of online work with 10 files listed in the file return ring. Using the Jump to File Return command and spacing back through the ring to my initials file,

1b

Error msg: "file numbers do not match in storesrring". Repeated the command and spacing with same error msg. Then attempted Jump to Link typing in the filename == received same error msg. Load File also produced the same error msg. Help from programmers was not available due to higher priorities. Since I was in a file that I did not have write access to, the only alternative was to reset NLS. A check of my initials file indicated that the Journal was not writing on it at the time I tried to return to it. Of course there was a partial copy,

1c

Recurrence: This kind of problem has occurred numerous times in recent weeks. This is the first time I have been able to document it completely. It occurred in 3 demos with different error msgs and occurred with Jump to Return as well (the previous window was simply not there),

1d