

Baseline -- John

The following is a printout of two views all the task branches from the Baseline Data in which your name appears. In order to get a reasonably accurate picture of what should or will occur in ARC during the next several months, we need help from you in several ways.

1

1. If you are the pusher (if your name is the first after the < in the top statement of a task) for the task, you should make an estimate of the dates for the start and completion (unless "ongoing") of the task. It is realized that such estimates are usually inaccurate, but the guesses will be useful in the balancing process. Please be conservative.

1a

You may want to discuss the estimated dates with the task's buyer and/or the other workers and/or if its a software task the Software Personnel Coordinator (me -- Bruce) as you make them.

1a1

2. Update or note any erroneous or incomplete information you see.

1b

3. Let me know about any tasks that aren't in here or have been completed.

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To do this, you should mark this hardcopy with the above information and return it to me - by Tuesday 6/7? -- I will take care of getting all the updating into the file itself. (by the way the file is now (MSR, Basedata,) and no longer Baserec) Feel free to come and talk with me about any of the information or process.

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The first view has only the top statement of each task and only 1 line of that statement. The second view has the entire task branch in all its gory detail. Mark either view.

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There is a new convention for dates in Basedata. There can be two forms:

4

6:2 = 2nd week June -- June 12th

4a

6/12 = June 12th -- last day in second week of June

4b

Some correspondences follow:

4c

wks by mo/day: 6/5 6/12 6/19 6/26 7/3 7/10 7/17 7/24 7/31
8/7

4c1

wks by mo/week: 6:1 6:2 6:3 6:4 7:1 7:2 7:3 7:4 7:5
8:1

4c2

Baseline -- John

Service'Development!	6
TENEX!	7
Restrict'File'Space'Study> 5/3 6/3 <John	7a
Work'Station'I/O> ??? ??? <John Charles Don?	7b
Restrict'Exec'Commands> 5/3 6/3 <John WHP Charles	7c
UCSB'Storage'File> 5/3 6/3 <John WSD	7d
NET'Link> 5/3 6/3 <John	7e
NET'Advise'Study> 5/3 6/3 <John	7f
Drum'Compare> 4/1 ??? <Don Ken Ed WHP Roger Dave John?	7g
Network'File'Transfer> 5/3 8/2 <John	7h
NIC!	8
NIC'Stage'0> 4/1 6/18 <Dick John Jean Dirk	8a
NIC'Stage'1> 5/4 8/1 <Dick John Marilyn Dirk	8b
NIC'Stage'2> 6/3 9/1 <Dick John Marilyn Dirk	8c
Access'Experiment> ??? ??? <John	8d
NLS!	9
Graphics> ??? ??? <Charles? Mimi? WHP? John? Dave?	9a
Dialogue'Support!	10
Management'Systems!	11
Documentation!	12
RINS!	13
Software'Engineer'Augmentation!	14
Hardware'Upgrade!	15
Collaboration!	16
Miscellaneous!	17

Baseline -- John

Service'System'Operations!

18

TENEX'Maintain> --- --- <Ken John Dave Charles

18a

19

Baseline -- John

Service'Development!	20
TENEX!	21
Restrict'File'Space'Study> 5/3 6/3 <John software NIC 0	21a
Information:	21a1
We need a plan to restrict the amount of file space a network user or site can use.	21a1a
Buyer(s):	21a2
(,NIC'Stage'1)	21a2a
Work'Station'I/O> ??? ??? <John Charles Don? software 0	21b
Information:	21b1
Change the way work station I/O is done so that it will be faster and is cleaned up and nice.	21b1a
Restrict'Exec'Commands> 5/3 6/3 <John WHP Charles software NIC 1	21c
Information:	21c1
We need a way to restrict the Exec commands a network user can use.	21c1a
The following set of commands would be allowed to all users.	21c1b
login, logout, auto-logout	21c1b1
copy, delete, expunge, and rename files	21c1b2
directory (simple version), sysstat	21c1b3
all control characters	21c1b4
Requirements:	21c2
(see -- Journal, 6229)	21c2a
Buyer(s):	21c3
(,NIC'Stage'1)	21c3a

Baseline -- John

UCSB'Storage'File> 5/3 6/3 <John WSD
software NIC 1

21d

Information:

21d1

Perhaps use UCSB a a file storage place.

21d1a

Buyer(s):

21d2

(.NIC'Stage'1)

21d2a

NET'Link> 5/3 6/3 <John
software NIC 1

21e

Information:

21e1

Be able to "link to" another TTY on the Network.

21e1a

Buyer(s):

21e2

(.NIC'Stage'1)

21e2a

NET'Advise'Study> 5/3 6/3 <John
software NIC 1

21f

Information:

21f1

Find out about if, when, and/or how "advising" remote teletypes over the NET is going to be done.

21f1a

Buyer(s):

21f2

(.NIC'Stage'1)

21f2a

Drum'Compare> 4/1 ??? <Don Ken Ed WHP Roger Dave John?
software 1?

21g

Information:

21g1

Decide relative merits of Univac, Bryant, and both drums and decide which to keep.

21g1a

Milestones:

21g2

before 6/2: drum statistics collector so can run tests

21g2a

no decision will be reached before 9/1 to allow statistic gathering and to assure that the heads are not going to crash

21g2b

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Network'File'Transfer> 5/3 8/2 <John
software NIC 2

21h

Information:

21h1

Be able to transfer files to and from other sites on the
Network.

21h1a

Sub-Contracts:

21h2

We are dependent on the NWG setting a file transfer
protocol and on the sites implementing it.

21h2a

Buyer(s):

21h3

(,NIC'Stage'1)

21h3a

NIC!

22

NIC'Stage'0> 4/1 6/18 <Dick John Jean Dirk
NIC 0

22a

Information:

22a1

Stage 0 is to provide experimental access to the NIC to
a limited number of selected sites and users.

22a1a

Requirements:

22a2

Access to Tenex Exec

22a2a

Access to TNLS with local echoing

22a2b

Training for initial users

22a2c

Help for network users when they call with questions

22a2d

Initial NIC DSS - hardcopy delivery

22a2e

Initial Primer and other NIC documentation

22a2f

Total lines in = 2

22a2g

Buyer(s):

22a3

ARC goal

22a3a

Sub-Contracts:

22a4

(,TNLS'Features)

22a4a

Baseline -- John

(,Initial'TNLS'Primer)	22a4b
(,Journal'User'Guide)	22a4c
(,DSS)	22a4d
Requirements:	22a4d1
(Journal,6222,)	22a4d1a
Subtasks:	22a5
NCP> 4/1 5/3 <John software NIC 0	22a5a
Information:	22a5a1
Get the Network Control Program written by BBN into our system and debugged.	22a5a1a
TELNET> 4/1 5/3 <John software NIC 0	22a5b
Information:	22a5b1
Get the TELNET written by BBN into our system and debugged.	22a5b1a
NIC'TENEX'0> 4/3 5/3 <John software NIC 0	22a5c
Information:	22a5c1
Miscellaneous work in TENEX needed for Stage 0.	22a5c1a
Requirements:	22a5c2
Put in user ID info	22a5c2a
Changes to Tenex to access TNLS from Net	22a5c2b
Proper crash recovery for Net	22a5c2c
Access spec	22a5c2d
NIC'Training'Session> 4/3 6/2 <Dick Dirk John NIC 0	22a5d
Information:	22a5d1

Baseline -- John

This is the two day training session for the
 programmers we're going to allow access for Stage
 0.

22a5d1a

Requirements:

22a5d2

Lesson plan

22a5d2a

Examples

22a5d2b

Practice materials

22a5d2c

Milestones:

22a5d3

Course to be given June 16-17

22a5d3a

NIC'Info'Phone> 5/4 6/2 <Jean
 NIC 0

22a5e

Information:

22a5e1

Getting two Enterprise phones installed for NET
 users to call and ask questions.

22a5e1a

NIC'Stage'1> 5/4 8/1 <Dick John Marilyn Dirk
 NIC 1

22b

Information:

22b1

Stage 1 is to provide access to the NIC from any site on
 the Network having the appropriate access software.

22b1a

Requirements:

22b2

Restrict NIC users to a subset of EXEC commands.

22b2a

Access to any site with official Telnet

22b2b

Number of lines in = 4-8 depending on our capability

22b2c

Need a study to determine how to place file space
 restrictions on network users or sites

22b2d

Final Primer

22b2e

Online files accessed with standard TNLS commands
 (possibly a simple query language)

22b2f

Catalog

22b2f1

Baseline -- John

Guide to network personnel	22b2f2
ARPA Network Resources Notebook	22b2f3
NIC guide	22b2f4
Host status	22b2f5
Link for advise mode	22b2g
Network file transfer	22b2h
Buyer(s):	22b3
ARC goal	22b3a
Sub-Contracts:	22b4
(,DSS)	22b4a
Requirements:	22b4a1
(Journal,6959,) (Journal,6966,)	22b4a1a
(,Restrict'File'Space'Study)	22b4b
(,Restrict'Exec'Commands)	22b4c
(,NET'Link)	22b4d
(,NET'Advise'Study)	22b4e
(,Network'File'Transfer)	22b4f
(,UCSB'Storage'File)	22b4g
(,Final'TNLS'Primer)	22b4h
(,Journal'User'Guide)	22b4i
Subtasks:	22b5
NIC'TENEX'1> 5/4 7/2 <John software NIC 1	22b5a
Information:	22b5a1
Miscellaneous work in TENEX needed for Stage 1.	22b5a1a
Requirements:	22b5a2

Baseline -- John

Help create NICTNLS	22b5a2a
New'NCP'Telnet> ??? 7/2 <John software NIC 1	22b5b
Enter'User'ID'Info> ??? 7/2 <John NIC 1	22b5c
Access'Spec> ??? ??? <John NIC 1	22b5d
Sub-Contracts:	22b5d1
We must wait for BBN to write new NCP and for the NWG to specify a Telnet and BBN to implement it.	22b5d1a
NIC'Documentation'1> 5/2 7/2 <Marilyn NIC 1	22b5e
Requirements:	22b5e1
Guide to our online files	22b5e1a
Final NICTNLS Primer	22b5e1b
Guide to Journal system	22b5e1c
Sub-Contracts:	22b5e2
(,Final'TNLS'Primer)	22b5e2a
(,Journal'User'Guide)	22b5e2b
NIC'Training'Plans> ??? 6/2 <Dirk Dick NIC 1	22b5f
Requirements:	22b5f1
Plans for site training	22b5f1a
NIC'Online'Files'1> 5/4 7/2 <Dick Marilyn NIC 1	22b5g
Requirements:	22b5g1
Catalog and simple query facility	22b5g1a
Guide to Network personnel	22b5g1b
Facilities guide	22b5g1c

Baseline -- John

NIC guide includes NIC TNLS Primer	22b5gld
Host status	22b5gle
NIC 'Stage' 2> 6/3 9/1 <Dick John Marilyn Dirk NIC 2	22c
Information:	22cl
Stage 2 is to provide more capacity for Network use and additional facilities as described in Require	22cla
Requirements:	22c2
Online message delivery	22c2a
Number of lines in greater than in Stage 1	22c2b
Deferred Execution Offline entry	22c2c
Access to remote files	22c2d
Refined resource restrictions	22c2e
Improve query facilities for our online files	22c2f
Buyer(s):	22c3
ARC goal	22c3a
Sub-Contracts:	22ch
(,Display'NLS)	22cha
(,Accounting)	22chb
(,Fast'Sort)	22chc
(,Invisible'Record'Separators)	22chd
(,Collector'Sorter'Branches)	22che
(,Mixed'Text'Graphics)	22chf
(,Deferred'Execution)	22chg
(,DSS)	22chh
Requirements:	22chhl

Baseline -- John

Online message delivery	22c4h1a
Message delivery to remote files-dependent on NWG specifying a protocol and sites implementing it	22c4h1b
(,Increase'Capacity)	22c4i
(,Baseline'Conventions)	22c4j
(,Baseline'Tools)	22c4k
(,Resource'Accounting)	22c4l
(,Network'File'Transfer)	22c4m
Subtasks:	22c5
Site'Hardcopy'Plan> ??? ??? <John NIC 2	22c5a
Information:	22c5a1
Develop plan for shipping files to remote sites for printing on their printers.	22c5a1a
•Sub-Contracts:	22c5a2
(,Network'File'Transfer)	22c5a2a
Limit'Net'Access> 7/2 8/2 <John software NIC 2	22c5b
Requirements:	22c5b1
Access from X lines with maximum y per site.	22c5b1a
NIC'Documentation'2> ??? 8/2 <Marilyn Dick NIC 2	22c5c
Requirements:	22c5c1
On-going improvements and coverage of new features offered to Network	22c5c1a
NET'Site'Training> ??? 8/1 <Dirk Dick NIC 2	22c5d
Requirements:	22c5d1
On-going site training.	22c5d1a

Baseline -- John

NIC'Online'Files'2> 6/3 8/2 <Dick
NIC 2

22c5e

Requirements:

22c5e1

Improve query system using ARC set techniques?

22c5e1a

Improve our online documentation of NIC.

22c5e1b

Access'Experiment> ??? ??? <John
software NIC 2

22d

Information:

22d1

This experiment is to study users reaction to levels of
feedback and response.

22d1a

Requirements:

22d2

NWG/RFC 96 ,NIC 5739,)

22d2a

NLS!

23

Graphics> ??? ??? <Charles? Mimi? WHP? John? Dave?
software

23a

Information:

23a1

Make a graphics package. May be intimately related to
the calculator.

23a1a

Dialogue'Support!

24

Management'Systems!

25

Documentation!

26

RINS!

27

Software'Engineer'Augmentation!

28

Hardware'Upgrade!

29

Collaboration!

30

Miscellaneous!

31

Service'System'Operations!

32

Baseline -- John

TENEX'Maintain> --- --- <Ken John Dave Charles
software 0 * 1 2

32a

Subtasks:

32a1

PMAP'Bug> ??? ??? <Ken
software 0

32a1a

Information:

32a1a1

Bill Duvall thinks he discovered a bug in PMAP
when there are lots of files open.

32a1a1a

Index'Creation'Bug> ??? 5/1 <WSD? Ken? Charles?
software

32a1b

Information:

32a1b1

This is the problem which has led to innumerable
crashes and prevented us from easily creating
titleword indexes

32a1b1a

Special'TTY'I/O> ??? ??? <John Ken
software

32a1c

Information:

32a1c1

Fix so 15 and 30 character/second terminals don't
drop characters. Also straighten out upper/lower
case problems.

32a1c1a

GET'JSYS> ??? ??? <Ken
software

32a1d

Information:

32a1d1

The JSYS that does GETS doesn't work if there are
overlapping pages in the running process and the
file the GET is performed on.

32a1d1a

NOUT'JSYS> ??? ??? <Ken
software

32a1e

Information:

32a1e1

The NOUT JSYS (number output) sometimes clobbers
register 3.

32a1e1a

OPENF'JSYS> ??? ??? <Ken
software

32a1f

Baseline -- John

Information:

32alf1

OPENF set byte size doesn't make it to the FDB. 32alf1a

Information:

32a2

Bug fixing, cleaning up, speeding up programs.

32a2a

Baseline -- John

<JOURNAL>7227.NLS;2, 7-JUN-71 12:29 HGL ; (Expedite) Title: Author(s):
Bruce L. Parsley/BLP; Distribution: John T. Melvin/JTM; Keywords:
Baseline Record; Clerk: BLP;
Origin: <MSR>JJOHN.NLS;2, 5-JUN-71 16:55 BLP ;

.PEL; .PGN=PGN-1; .GCR;

Baseline -- Jeanne

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8/7

4c1

wks by mo/week: 6:1 6:2 6:3 6:4 7:1 7:2 7:3 7:4 7:5
8:1

4c2

Baseline -- Jeanne

Service'Development!	6
TENEX!	7
NIC!	8
NIC'Stage'O> 4/1 6/18 <Dick John Jean Dirk	8a
Catalog> --- --- <Dick Walter Jean Jim WHP	8b
Clerical'Procedures> ??? ??? <Jean	8c
NLS!	9
Dialogue'Support!	10
Management'Systems!	11
Documentation!	12
RINS!	13
RINS> ??? ??? <Jean ???	13a
NAS'Catalog> ??? ??? <Jean	13b
Software'Engineer'Augmentation!	14
Hardware'Upgrade!	15
Collaboration!	16
Miscellaneous!	17
Service'System'Operations!	18
NIC'Operations> --- --- <Dick Jean Marilyn Mil	18a
	19

Baseline -- Jeanne

Service'Development:	20
TENEX:	21
NIC:	22
NIC'Stage'O> 4/1 6/18 <Dick John Jean Dirk NIC O	22a
Information:	22a1
Stage O is to provide experimental access to the NIC to a limited number of selected sites and users.	22a1a
Requirements:	22a2
Access to Tenex Exec	22a2a
Access to TNLS with local echoing	22a2b
Training for initial users	22a2c
Help for network users when they call with questions	22a2d
Initial NIC DSS - hardcopy delivery	22a2e
Initial Primer and other NIC documentation	22a2f
Total lines in = 2	22a2g
Buyer(s):	22a3
ARC goal	22a3a
Sub-Contracts:	22a4
(,TNLS'Features)	22a4a
(,Initial'TNLS'Primer)	22a4b
(,Journal'User'Guide)	22a4c
(,DSS)	22a4d
Requirements:	22a4d1
(Journal,6222,)	22a4d1a
Subtasks:	22a5

Baseline -- Jeanne

NCP> 4/1 5/3 <John software NIC 0	22a5a
Information:	22a5a1
Get the Network Control Program written by BBN into our system and debugged.	22a5a1a
TELNET> 4/1 5/3 <John software NIC 0	22a5b
Information:	22a5b1
Get the TELNET written by BBN into our system and debugged.	22a5b1a
NIC'TENEX'0> 4/3 5/3 <John software NIC 0	22a5c
Information:	22a5c1
Miscellaneous work in TENEX needed for Stage 0.	22a5c1a
Requirements:	22a5c2
Put in user ID info	22a5c2a
Changes to Tenex to access TNLS from Net	22a5c2b
Proper crash recovery for Net	22a5c2c
Access spec	22a5c2d
NIC'Training'Session> 4/3 6/2 <Dick Dirk John NIC 0	22a5d
Information:	22a5d1
This is the two day training session for the programmers we're going to allow access for Stage 0.	22a5d1a
Requirements:	22a5d2
Lesson plan	22a5d2a
Examples	22a5d2b
Practice materials	22a5d2c

Baseline -- Jeanne

Milestones:	22a5d3
Course to be given June 16-17	22a5d3a
NIC'Info'Phone> 5/4 6/2 <Jean NIC O	22a5e
Information:	22a5e1
Getting two Enterprise phones installed for NET users to call and ask questions.	22a5e1a
Catalog> --- --- <Dick Walter Jean Jim WHP NIC O * 1 2	22b
Information:	22b1
There are a number of tasks required to continue to upgrade our capabilities in the cataloging area	22b1a
Buyer(s):	22b2
NIC	22b2a
Sub-Contracts:	22b3
(,Index'Creation'Bug)	22b3a
Subtasks:	22b4
Complete'New'Catalog> --- 5/4 <Dick Jim NIC O	22b4a
Doc'Catalog'Production> 5/2 5/3 <Dick Jim NIC O	22b4b
Information:	22b4b1
Document catalog production.	22b4b1a
Obsolete'Documents> ??? ??? <Jean Dick NIC O	22b4c
Information:	22b4c1
How are obsolete documents appearing in the catalog handled.	22b4c1a
Improve'Catalog'Produce> ??? 7/1 <Walter WHP software NIC * 1	22b4d

Baseline -- Jeanne

Information:	22bhd1
Improve catalog production process.	22bhd1a
Catalog'Entry> ??? ??? <Walter software NIC 1	22bhe
Information:	22bhe1
Develop procedures and software aids for entering new catalog items.	22bhe1a
Initial'Query'Language> ??? 6/3 <Dick Walter software NIC 2	22bh4f
Clerical'Procedures> ??? ??? <Jean NIC 1	22c
Information:	22c1
Develop better clerical procedures for NIC.	22c1a
Cataloging'Aids> ??? ??? <Dick NIC Jean	22c1b
Data'Management'Needs> ??? ??? <Dick NIC	22c1c
Collection'Distribution'Philo> ??? ??? <Dick NIC	22c1d
Information:	22c1d1
Collection and distribution philosophy.	22c1d1a
Computer'capacity'at'what'cost> ??? ??? <Dick NIC	22c1e
Accounting> ??? ??? <Jim NIC	22c1f
Requirements:	22c1f1
Catalog input	22c1f1a
Duplication	22c1f1b
Phone	22c1f1c
Mailing	22c1f1d

Baseline -- Jeanne

Training	22clfle
System development	22clflf
Computer operations	22clflg
Buyer(s):	22clf2
(,NIC'Stage'2)	22clf2a
Our'Own'Xerox> ??? ??? <Dick NIC	22clg
NLS!	23
Dialogue'Support!	24
Management'Systems!	25
Enter'BD'RINS> 6/1 6/2 <Jean Bruce O	25a
Information:	25a1
The RINS section of (MSR, Basedata,) is not up-to-date.	25ala
Documentation!	26
RINS!	27
RINS> ??? ??? <Jean ???	27a
Information:	27a1
Research Intelligence System. Mostly RINS needs to get started. An immediate task is to buy some books and documents.	27ala
NAS'Catalog> ??? ??? <Jean	27b
Information:	27b1
Get National Academy of Sciences documents into our cataloging system.	27b1a
Software'Engineer'Augmentation!	28
Hardware'Upgrade!	29
Collaboration!	30

Baseline -- Jeanne

Miscellaneous!	31
Service'System'Operations!	32
NIC'Operations> --- --- <Dick Jean Marilyn Mil O * 1 2	32a
Information:	32a1
Updating catalogues and collections, etc.	32a1a
Subtasks:	32a2
Help'For'Net'Users> 6/3 --- --- <Marilyn NIC O * 1 2	32a2a
Information:	32a2a1
Answering the phone that NET users call to ask questions about NLS, TENEX, etc.	32a2a1a
Station'Agent'Help> --- --- <Jean NIC O * 1 2	32a2b
Requirements:	32a2b1
Station Agent Manual	32a2b1a
Site visits	32a2b1b
Suggestions on storage circulation	32a2b1c
Obtain'documents> --- --- <Jean Mil NIC O * 1 2	32a2c
Information:	32a2c1
Obtain ARPA reports and Karp biblio documents for collection	32a2c1a
Buyer(s):	32a2c2
NIC	32a2c2a

Baseline -- Jeanne

<JOURNAL>7228.NLS;2, 7-JUN-71 12:30 HGL ; (Expedite) Title: Author(s):
Bruce L. Parsley/BLP; Distribution: Jeanne B. North/JBN; Keywords:
Baseline Record; Clerk: BLP;
Origin: <MSR>JJJEAN.NLS;1, 5-JUN-71 16:58 BLP ;

.PEL; .PGN=PGN-1; .GOR;

Baseline -- Jim

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1. If you are the pusher (if your name is the first after the < in the top statement of a task) for the task, you should make an estimate of the dates for the start and completion (unless "ongoing") of the task. It is realized that such estimates are usually inaccurate, but the guesses will be useful in the balancing process. Please be conservative.

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You may want to discuss the estimated dates with the task's buyer and/or the other workers and/or if its a software task the Software Personnel Coordinator (me -- Bruce) as you make them.

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2. Update or note any erroneous or incomplete information you see.

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3. Let me know about any tasks that aren't in here or have been completed.

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To do this, you should mark this hardcopy with the above information and return it to me - by Tuesday 6/7? -- I will take care of getting all the updating into the file itself. (by the way the file is now (MSR, Basedata,) and no longer Baserec) Feel free to come and talk with me about any of the information or process.

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The first view has only the top statement of each task and only 1 line of that statement. The second view has the entire task branch in all its gory detail. Mark either view.

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There is a new convention for dates in Basedata. There can be two forms:

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6:2 = 2nd week June -- June 12th

4a

6/12 = June 12th -- last day in second week of June

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Some correspondences follow:

4c

wks by mo/day: 6/5 6/12 6/19 6/26 7/3 7/10 7/17 7/24 7/31
8/7

4c1

wks by mo/week: 6:1 6:2 6:3 6:4 7:1 7:2 7:3 7:4 7:5
8:1

4c2

Baseline -- Jim

Service'Developement!	6
Operations'Developement> ??? ??? <Ed Ken Jim	6a
TENEX!	7
Directory'Groups> 5/3 5/4 <Jim Ken	7a
Bid'Scheduling> ??? ??? <Ken Don? WHP? Dick? Jim? Bruce?	7b
NIC!	8
Catalog> --- --- <Dick Walter Jean Jim WHP	8a
NLS!	9
Dialogue'Support!	10
Management'Systems!	11
Roles'Developement> --- ??? <Jim Doug Ed Bruce Charles WHP	11a
Baseline'Conventions> 5/2 6/2 <Bruce Jim	11b
Baseline'Tools> 4/2 ??? <Bruce Jim	11c
List'Goals> ??? ??? <Doug Jim? Bruce? ARC	11d
Resource'Accounting> 6/1 ??? <Jim Ed Ken Bruce ???	11e
Estimating> ??? ??? <Jim? Bruce? WSD? WHP? ???	11f
Documentation!	12
ONR'Report> ??? 5/2 <Dirk Doug Jim Marilyn	12a
ARPA'Proposal> 5/3 6/5 <Doug Dirk Jim Dick Don Roger WHP ???	12b
NLS'Doc'Master'File> ??? ??? <Jim Marilyn	12c
Rome'Report> --- 6/5 <Dirk Doug Jim Walter Don WSD Cindy	12d
RINS!	13
Software'Engineer'Augmentation!	14
Hardware'Upgrade!	15
Collaboration!	16

Miscellaneous!	17
Service'System'Operations!	18
Accounting> --- --- <Jim Bruce ???	18a
Clerical'Support> ??? ??? <Jim?	18b
Visitors> --- --- <Jim?	18c
	19

Baseline -- Jim

Service'Development!	20
Operations'Development> ??? ??? <Ed Ken Jim NIC 1	20a
Information:	20a1
Developing procedures and practices for providing service.	20a1a
Milestones:	20a2
3/4 something like a plan will be ready by this date.	20a2a
TENEX!	21
Directory'Groups> 5/3 5/4 <Jim Ken NIC 0	21a
Information:	21a1
Set up TENEX's file directory group mechanism to achieve the file protection ARC needs.	21a1a
Bid'Scheduling> ??? ??? <Ken Don? WHP? Dick? Jim? Bruce? software	21b
Information:	21b1
Implement a scheduling algorithm for hardware resources that employs bidding for those resources by the users. BBN people may do it or help.	21b1a
Man-time:	21b2
9 man-weeks [Ken]	21b2a
NIC!	22
Catalog> --- --- <Dick Walter Jean Jim WHP NIC 0 * 1 2	22a
Information:	22a1
There are a number of tasks required to continue to upgrade our capabilities in the cataloging area	22a1a
Buyer(s):	22a2
NIC	22a2a

Baseline -- Jim

Sub-Contracts:	22a3
(,Index'Creation'Bug)	22a3a
Subtasks:	22a4
Complete'New'Catalog> --- 5/4 <Dick Jim NIC O	22a4a
Doc'Catalog'Production> 5/2 5/3 <Dick Jim NIC O	22a4b
Information:	22a4b1
Document catalog production.	22a4b1a
Obsolete'Documents> ??? ??? <Jean Dick NIC O	22a4c
Information:	22a4c1
How are obsolete documents appearing in the catalog handled.	22a4c1a
Improve'Catalog'Produce> ??? 7/1 <Walter WHP software NIC * 1	22a4d
Information:	22a4d1
Improve catalog production process.	22a4d1a
Catalog'Entry> ??? ??? <Walter software NIC 1	22a4e
Information:	22a4e1
Develop procedures and software aids for entering new catalog items.	22a4e1a
Initial'Query'Language> ??? 6/3 <Dick Walter software NIC 2	22a4f
Accounting> ??? ??? <Jim NIC	22a4g
Requirements:	22a4g1
Catalog input	22a4g1a
Duplication	22a4g1b

Baseline -- Jim

Phone	22a4g1c
Mailing	22a4g1d
Training	22a4g1e
System development	22a4g1f
Computer operations	22a4g1g
Buyer(s):	22a4g2
(,NIC'Stage'2)	22a4g2a
Our'Own'Xerox> ??? ??? <Dick NIC	22a4h
NLS!	23
Dialogue'Support!	24
Management'Systems!	25
Roles'Development> --- ??? <Jim Doug Ed Bruce Charles WHP ARC 1	25a
Information:	25a1
Developing the internal organization of ARC and defining what kinds of roles there are to play. The idea is to design an organization and then implement it, considering the whole thing as an experiment.	25a1a
Subtasks:	25a2
Describe'All'Roles> ??? ??? <Jim Doug Ed Bruce Charles WHP ??? 1	25a2a
Subtasks:	25a2a1
Software'Coord> ??? ??? <Jim Bruce Charles WHP Doug ??? *	25a2a1a
Pusher'Buyer> ??? ??? <Jim Doug ??? *	25a2a1b

Baseline -- Jim

Assign'All'Roles> ??? ??? <Jim Doug Ed	
1	25a2b
Baseline'Conventions> 5/2 6/2 <Bruce Jim	
0	25b
Information:	25b1
Develop second-stage conventions for keeping Baseline Data.	25b1a
Subtasks:	25b2
Level'Of'Effort> 6/1 6/2 <Jim Bruce	
0	25b2a
Information:	25b2a1
Think about whether and if so how to keep information on "levels-of-effort" by person in the Baseline Data.	25b2a1a
Buyer(s):	25b2a2
(,Levels'Effort'Format)	25b2a2a
BD'Update'Conventions> 6/1 6/2 <Bruce Jim	
0	25b2b
Information:	25b2b1
Decide conventions for the Baseline Data file gets updated.	25b2b1a
Baseline'Tools> 4/2 ??? <Bruce Jim	
software 0 * 1 2	25c
Information:	25c1
Develop tools to aid in manipulation of planning records.	25c1a
Sub-Contracts:	25c2
(,Sets)	25c2a
(,OP'CONAN'Bug)	25c2b
(,Tabs)	25c2c

Baseline -- Jim

(,Journal'CONAN)	25c2d
(,Name'Hash'Bug)	25c2e
Subtasks:	25c3
Auto'BD'Journalize> 6/1 6/2 <Jim Bruce software 0	25c3a
Information:	25c3a1
Jim will make a list of all the views of the Baseline Data that are desired and which ones are to be Journalized and/or distributed weekly. Bruce will write the programs required to generate the views.	
	25c3a1a
Sub-Contracts:	25c3a2
(,CONAN'Copy)	25c3a2a
(,OP'CONAN'Bug)	25c3a2b
Costs:	25c3a3
3 days (Bruce)	25c3a3a
Gather'Task'Headings> 6/1 6/1 <Bruce software 0	25c3b
Information:	25c3b1
Generate a view of the Baseline Data that shows the header statements for Tasks whose headers pass some CONAN pattern.	
	25c3b1a
Costs:	25c3b2
done (Bruce)	25c3b2a
Gather'Task'Branches> 6/1 6/1 <Bruce software 0	25c3c
Information:	25c3c1
Generate a view of the Baseline Data that shows all the Task Branch for Tasks whose headers pass some CONAN pattern.	
	25c3c1a
Costs:	25c3c2

Baseline -- Jim

done (Bruce)	25c3c2a
Gather'Task'Pieces> 6/1 6/2 <Bruce software 0	25c3d
Information:	25c3d1
Generate a view of the Baseline Data that shows selected pieces, e.g., the header plus say the Sub-Contractor: and Buyer(s): sub-branches, of the Task Branch for Tasks whose headers pass some CONAN pattern.	25c3d1a
Costs:	25c3d2
1 day (Bruce)	25c3d2a
Gather'Task'Trees> ??? ??? <Bruce software	25c3e
Information:	25c3e1
Generate a view of the Baseline Data that shows the tree of Tasks related by Buyer/Sub-Contractor relations for any starting point (a Task).	25c3e1a
Costs:	25c3e2
2 weeks (Bruce)	25c3e2a
Sub-Contracts:	25c3e3
(,Enter'BD'Buyers)	25c3e3a
BD'PERT'Chart> ??? ??? <Bruce software	25c3f
Information:	25c3f1
Generate a PERT chart incorporating the Buyer/Sub-Contractor relation from the Baseline Data.	25c3f1a
Costs:	25c3f2
1 weeks (Bruce)	25c3f2a
BD'Dates'To'Xes> 6/1 6/2 <Bruce software 0	25c3g

Baseline -- Jim

Information: 25c3g1

Generate a view of the Baseline Data that shows
begin- and end-dates as lines of 'x' in a calander.

Costs: 25c3g1a

25c3g2

2 days (Bruce) 25c3g2a

Levels'Effort'Format> ??? ??? <Bruce
software 25c3h

Information: 25c3h1

Generate a view of the Baseline Data that shows
levels-of-effort appropriately formatted. 25c3h1a

Costs: 25c3h2

2 days (Bruce) 25c3h2a

Sub-Contracts: 25c3h3

(,Levels'Of'Effort) 25c3h3a

Gather'Tasks'Dates> ??? ??? <Bruce
software 25c3i

Information: 25c3i1

Generate a view of the Baseline Data that shows
tasks selected by criteria on their begin and/or
end-dates. 25c3i1a

Costs: 25c3i2

2 days (Bruce) 25c3i2a

Auto'Update'Dates> ??? ??? <Bruce
software 25c3j

Information: 25c3j1

Automatically update begin- and/or end-dates when
the dates for a task on which another task is
dependent change. 25c3j1a

List'Goals> ??? ??? <Doug Jim? Bruce? ARC
* 25d

Baseline -- Jim

Information:	25d1
Try to get a complete list of ARC's goals and/or top level Buyers.	25d1a
Buyer(s):	25d2
(,Enter'BR'Buyers)	25d2a
Resource'Accounting> 6/1 ??? <Jim Ed Ken Bruce ??? software NIC 2	25e
Information:	25e1
Develop system for keeping track of how are our various resources are used. These include people time and productivity, computer system power, materials, dollars.	25e1a
Buyer(s):	25e2
(,NIC'Stage'2)	25e2a
ARC Operations, MSR?	25e2b
Estimating> ??? ??? <Jim? Bruce? WSD? WHP? ??? software NIC 2	25f
Information:	25f1
Develop a more formal and hopefully more accurate methodology for estimating the costs (including time) of tasks that are to be worked on.	25f1a
Design:	25f2
There seem to be several different man-time estimates:	25f2a
time required to generate the Requirements	25f2a1
time required to generate the Design	25f2a2
time required to implement	25f2a3
estimates befor the design has been completed and estimates after (the latter is probably much more accurate)	25f2ah
Documentation!	26

Baseline -- Jim

ONR'Report> ??? 5/2 <Dirk Doug Jim Marilyn

0

26a

Information:

26a1

Final report to the Office of Naval Research.

26a1a

ARPA'Proposal> 5/3 6/5 <Doug Dirk Jim Dick Don Roger WHP ???
NIC *

26b

Information:

26b1

This is our proposal for the money that pays most of the bills. DCE must do most of the writing and general organization. When he has thought through the organization further he may be able to assign subtasks to other members of the group, particularly describing specific, short term plans and relevant background. Dirk wrote the outline and subtasks that appear below and they are tentative.

26b1a

Buyer(s):

26b2

ARC general Operations

26b2a

Requirements:

26b3

A document that will show ARPA goals and specific plans that they are willing to endorse with money and that will not constrain ARC's future course.

26b3a

Design:

26b4

Proposal outline

26b4a

I. Introduction

26b4b

A. General

26b4b1

B. ARC

26b4b2

C. Summary of Proposed Work

26b4b3

II. Background

26b4c

III. Directions for ARC

26b4d

IV. Proposed Project Activities

26b4e

V. Cost (separate volume)

26b4f

Baseline -- Jim

Dates:	26b5
Writing 5/3 6/2	26b5a
Review by DOE JCN DvN 6/1 6/3	26b5b
SRI approval and review 6/4	26b5c
Costs:	26b6
in manhours (estimated by Dirk)	26b6a
Doug: 90	26b6b
Dirk: 60	26b6c
Jim: 30	26b6d
typing: 20	26b6e
others: 40	26b6f
Subtasks:	26b7
Capacity'Figures> ??? ??? <Doug Dick Don Roger WHP NIC *	26b7a
Information:	26b7a1
We need \$ figures for proposals to increase our capacity.	26b7a1a
Doug and Dick are to project user needs (how many people we want to support when) and Don, Roger, and Bill are to figure out what hardware additions are needed to support those users and how much it will cost to acquire them.	26b7a1b
Organization> 5/3 5/4 <Doug *	26b7b
Introduction> 6/2 <Dirk *	26b7c
Directions'for'ARC> 5/3 6/2 <Doug *	26b7d
Proposed'Project'Activities> 5/3 6/2 <Doug ??? *	26b7e

Baseline -- Jim

Background> 5/3 6/1 <Doug ???
 * 26b7f

Cost> 5/3 6/1 <Jim
 * 26b7g

Review> 6/1 6/3 <Doug Jim Dirk
 * 26b7h

NLS'Doc'Master'File> ??? ??? <Jim Marilyn
 NIC 2 26c

Information: 26cl

Develop a plan for a master file of NLS documentation
 that can be manipulated in various ways, e.g., with the
 Content Analyzer, to produce various documents. 26cla

Rome'Report> --- 6/5 <Dirk Doug Jim Walter Don WSD Cindy 26d

Information: 26dl

The report to Rome Air Development Center required by
 the contract that pays us. This report is for work in
 1970. It was originally due in February but has been
 delayed indefinitely. Doug gave a guideline for
 writing: that we should try primarily to produce a
 document that will be useful to us as an archive of
 1970. 26dl1

Buyer(s): 26d2

The report to Rome is named as a buyer in Doug's scheme
 of buyers (Journal, 6934, 2d2). 26d2a

Requirements: 26d3

The requirements are spelled out in the contract with
 Rome; Mil has it on file. 26d3a

Design: 26dl

The design is the outline of the document
 (vannouhuys,rrr,:xb) 26dl1a

Dates: 26d5

Due in Rome 7/1/71 26d5a

Cost: 26d6

Baseline -- Jim

(in hours estimated by Dirk 5/10)	26d6a
Doug:20	26d6b
Dirk: 60	26d6c
Jim:12	26d6d
Walter:8	26d6e
WSD:4	26d6f
Don:12	26d6g
Cindy :20	26d6h
Barbara:8	26d6i
Subtasks:	26d7
Norton'Work> --- 6/2 <Jim Dirk	26d7a
Information:	26d7a1
Jim Norton needs to rework parts of the report dealing with NIC (vannouhuys,rrr,5a) ,with Desing Team Planning (vannouhuys,rrr,7e) and with the Journal (vannouhuys,rrr.7f).	26d7a1a
Higher'Level'Processes> --- 6/2 <Walt	26d7b
Information:	26d7b1
WSB needs to complete the section on higher level processes (vannouhuys,rrr,7d).	26d7b1a
Remote'Life> --- 6/2 <WSD Dirk	26d7c
Information:	26d7c1
Dirk and WSD need to do further polishing on the account of his remote life (vannouhuys,rrr,7g).	26d7c1a
Transferring'Compiler> --- 6/2 <Don Dirk	26d7d
Information:	26d7d1
Don Andrews needs to take his section on transfer the compiler from the 940 too the 10 from rough draft to final form (vannouhuys,rrr,6b).	26d7d1a

Baseline -- Jim

Future'Plans> --- 6/3 <Doug Dirk	26d7e
Information:	26d7e1
Doug needs to write a section on Future plans for the summary (vannouhuys,rrr,2c) and a similar section standing alone (vannouhuys,rrr,8).	26d7ela
References> --- 6/3? <Cindy Dirk	26d7f
Information:	26d7f1
We need to assemble them when Jim and Doug are though writing their sections	26d7fla
Glossary> --- 6/3 <Dirk	26d7g
Information:	26d7g1
We need more and better words and to prune out old words	26d7g1a
Editing> --- 6/5 <Dirk	26d7h
Information:	26d7h1
Dirk needs to pat down the prose more, refine printing directives, and shepard through SRI review and printing.	26d7h1a
Review> --- 6/4 <Doug	26d7i
Information:	26d7i1
Doug has to read and affirm that all this is consonant with his thinking.	26d7i1a
RINS!	27
Software'Engineer'Augmentation!	28
Hardware'Upgrade!	29
Collaboration!	30
Miscellaneous!	31
Service'System'Operations!	32

Baseline -- Jim

Accounting> --- --- <Jim Bruce ???
0 * 1 2

32a

Information:

32a1

Keeping track of money, peoples' time, computer time,
supplies used.

32a1a

Clerical Support> ??? ??? <Jim?
0 * 1 2

32b

Information:

32b1

We need more clerical people.

32b1a

Visitors> --- --- <Jim?
0 * 1 2

32c

Information:

32c1

Taking care of visitors.

32c1a

Baseline -- Jim

<JOURNAL>7229.NLS;2, 7-JUN-71 12:34 HGL ; (Expedite) Title: Author(s):
Bruce L. Parsley/BLP; Distribution: James C. Norton/JCN; Keywords:
Baseline Record; Clerk: BLP;
Origin: <MSR>JJIM.NLS;1, 5-JUN-71 17:03 BLP ;

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8/7

4c1

wks by mo/week: 6:1 6:2 6:3 6:4 7:1 7:2 7:3 7:4 7:5
8:1

4c2

Baseline -- Bruce

Service'Development!	6
TENEX!	7
Bid'Scheduling> ??? ??? <Ken Don? WHP? Dick? Jim? Bruce?	7a
NIC!	8
NLS!	9
Name'Delimiters'TNLS> ??? ??? <Bruce	9a
Diddle'OP> 4/4 5/2 <Walter Bruce	9b
Cheap'Fonts> ??? ??? <Walter Bruce	9c
Grid'Coordinates> ??? ??? <Walter Bruce	9d
OP'Fonts> ??? ??? <Walter Bruce	9e
FR80> ??? ??? <Walter Bruce	9f
Portrayal'Generator> ??? ??? <Walter Bruce Charles	9g
Dialogue'Support!	10
Sets> ??? ??? <WSD Bruce	10a
Management'Systems!	11
Roles'Development> --- ??? <Jim Doug Ed Bruce Charles WHP	11a
Baseline'Conventions> 5/2 6/2 <Bruce Jim	11b
Up-to-date'BD> 6/1 6/2 <Bruce ARC	11c
Baseline'Tools> 4/2 ??? <Bruce Jim	11d
List'Goals> ??? ??? <Doug Jim? Bruce? ARC	11e
Resource'Accounting> 6/1 ??? <Jim Ed Ken Bruce ???	11f
Estimating> ??? ??? <Jim? Bruce? WSD? WHP? ???	11g
Documentation!	12
New'OP'User'Guide> 5/2 5/4 <Walter Bruce	12a
RINS!	13

Baseline -- Bruce

Software'Engineer'Augmentation!	14
Hardware'Upgrade!	15
Graphic'Hardcopy'Study> ??? ??? <Roger Walter? Bruce?	15a
Collaboration!	16
Miscellaneous!	17
Service'System'Operations!	18
NLS'Maintain> --- --- <Mimi Charles WHP WSD? Bruce?	18a
Output'Processor'Maintain> --- --- <Walter Bruce	18b
Accounting> --- --- <Jim Bruce ???	18c
Plans'Maintenance> --- --- <Bruce ARC	18d
	19

Baseline -- Bruce

Service'Development!	20
TENEX!	21
Bid'Scheduling> ??? ??? <Ken Don? WHP? Dick? Jim? Bruce? software	21a
Information:	21a1
Implement a scheduling algorithm for hardware resources that employs bidding for those resources by the users. BBN people may do it or help.	21a1a
Man-time:	21a2
9 man-weeks [Ken]	21a2a
NIC!	22
NLS!	23
Name'Delimiters'TNLS> ??? ??? <Bruce software NIC O	23a
Information:	23a1
Put the Name Delimiter commands into TNLS.	23a1a
Diddle'OP> h/h 5/2 <Walter Bruce software O	23b
Information:	23b1
Add directives and fix a couple of bugs.	23b1a
Bugs	23b1b
Roman Numbers	23b1b1
GPN with negative page numbers	23b1b2
IF expressions	23b1b3
New Directives	23b1c
HJournal -- special directive for Journal	23b1c1
Multiple Header Directives: H1, H2, H3, H4, LBH1H2, LBH2H3, LBH3H4, H1Sw, H2Sw, H3Sw, H4Sw, H1P, H2P, H3P, H4P.	23b1c2

Baseline -- Bruce

IgL -- Ignore Line	23blc3
IgLS -- Ignore Line Segment	23blch
LShow -- Line Show	23blc5
SVLC -- Statement Visible Line Count (for query only)	23blc6
SNShow -- Statement Number Show; also work on SNF and SN to make numbering neater.	23blc7
 Cheap'Fonts> ??? ??? <Walter Bruce software	 23c
Information:	23cl
Implement directives for a limited set of fonts, e.g., underbar, overbar, and bold-face -- multiple impression -- for the line printer.	23cla
 Grid'Coordinates> ??? ??? <Walter Bruce software	 23d
Information:	23dl
Fix up the Output Processor to work internally with grid coordinates instead of columns and lines and add directives that specify horizontal and vertical positions in grid coordinates.	23dla
 OP'Fonts> ??? ??? <Walter Bruce software	 23e
Information:	23el
Allow input characters in various fonts and produce various fonts on output. The input fonts may first be handled with directives, eventually perhaps by means of the feature (,Node'Property'List).	23ela
 FR80> ??? ??? <Walter Bruce software	 23f
Information:	23fl
Reinstate the FR80 COM as an output device.	23fla
 Portrayal'Generator> ??? ??? <Walter Bruce Charles software	 23g

Baseline -- Bruce

Information: 23g1

Make one program that performs all the current functions of Create Display, the Output Processor, TNLS Print command, and Quickprint.

23g1a

Dialogue'Support! 2h

File'Library'Meeting> 6/1 6/1 <WSD Bruce Charles WHP Mimi software NIC 1

2ha

Information: 2hal

Hold a meeting to decide roughly how to do the file system.

2hala

File'Library'Stage'O> ??? ??? <WSD software NIC 1

2halb

Information: 2halb1

Implement the first version of the File Library System. This will probably only involve a facility for loading Journal entries as a read only "Tree". A Tree is a branch the uppermost member of which is considered to have statement number zero.

2halb1a

Master'Catalog'Organization> ??? ??? <WSD NIC 1

2halc

Information: 2halc1

Propose a design for the organization of the Master Catalog.

2halc1a

File'Library'System'Design> ??? ??? <WSD NIC 1

2hald

Information: 2hald1

Work out a design for the final, grandiose File Library System.

2hald1a

Sets> ??? ??? <WSD Bruce software NIC

2hb

Information: 2hb1

This is the set system so long thought about.

2hbla

Baseline -- Bruce

Buyer(s):	24b2
(,Baseline'Tools)	24b2a
NIC	24b2b
(,File'Library'System)	24b2c
Design:	24b3
(Journal, 6207,)	24b3a
(Journal, 6983,)	24b3b
Management'Systems:	25
Roles'Development> --- ??? <Jim Doug Ed Bruce Charles WHP ARC 1	25a
Information:	25a1
Developing the internal organization of ARC and defining what kinds of roles there are to play. The idea is to design an organization and then implement it, considering the whole thing as an experiment.	25a1a
Subtasks:	25a2
Describe'All'Roles> ??? ??? <Jim Doug Ed Bruce Charles WHP ??? 1	25a2a
Subtasks:	25a2a1
Software'Coord> ??? ??? <Jim Bruce Charles WHP Doug ??? *	25a2a1a
Pusher'Buyer> ??? ??? <Jim Doug ??? *	25a2a1b
Assign'All'Roles> ??? ??? <Jim Doug Ed 1	25a2b
Baseline'Conventions> 5/2 6/2 <Bruce Jim 0	25b
Information:	25b1

Baseline -- Bruce

Develop second-stage conventions for keeping Baseline Data.	25b1a
Subtasks:	25b2
Level'Of'Effort> 6/1 6/2 <Jim Bruce O	25b2a
Information:	25b2a1
Think about whether and if so how to keep information on "levels-of-effort" by person in the Baseline Data.	25b2a1a
Buyer(s):	25b2a2
(,Levels'Effort'Format)	25b2a2a
BD'Update'Conventions> 6/1 6/2 <Bruce Jim O	25b2b
Information:	25b2b1
Decide conventions for the Baseline Data file gets updated.	25b2b1a
Up-to-date'BD> 6/1 6/2 <Bruce ARC O	25c
Information:	25c1
Get the Baseline Data up-to-date.	25c1a
Sub-Contracts:	25c2
(,List'Goals)	25c2a
Subtasks:	25c3
Enter'BD'Dates> 6/1 6/2 <Bruce ARC O	25c3a
Information:	25c3a1
Get begin- and end-week dates into (MSR, Basedata,) for all tasks. A few may actually be "???".	25c3a1a
Enter'BD'Buyers> 6/1 6/2 <Bruce O	25c3b

Baseline -- Bruce

Information: 25c3b1

Make sure every task has a Buyer and that all the
Sub-Contractors: branches are filled out in (MSR,
Basedata,).

25c3b1a

Enter 'BD'RINS> 6/1 6/2 <Jean Bruce
0

25c3c

Information: 25c3c1

The RINS section of (MSR, Basedata,) is not
up-to-date.

25c3c1a

Baseline'Tools> 4/2 ??? <Bruce Jim
software 0 * 1 2

25d

Information: 25d1

Develop tools to aid in manipulation of planning
records.

25d1a

Sub-Contracts: 25d2

(,Sets) 25d2a

(,OP'CONAN'Bug) 25d2b

(,Tabs) 25d2c

(,Journal'CONAN) 25d2d

(,Name'Hash'Bug) 25d2e

Subtasks: 25d3

Auto'BD'Journalize> 6/1 6/2 <Jim Bruce
software 0

25d3a

Information: 25d3a1

Jim will make a list of all the views of the
Baseline Data that are desired and which ones are
to be Journalized and/or distributed weekly.
Bruce will write the programs required to generate
the views.

25d3a1a

Sub-Contracts: 25d3a2

(,CONAN'Copy) 25d3a2a

Baseline -- Bruce

(,OP'CONAN'Bug)	25d3a2b
Costs:	25d3a3
3 days (Bruce)	25d3a3a
Gather'Task'Headings> 6/1 6/1 <Bruce software 0	25d3b
Information:	25d3b1
Generate a view of the Baseline Data that shows the header statements for Tasks whose headers pass some CONAN pattern.	25d3b1a
Costs:	25d3b2
done (Bruce)	25d3b2a
Gather'Task'Branches> 6/1 6/1 <Bruce software 0	25d3c
Information:	25d3c1
Generate a view of the Baseline Data that shows all the Task Branch for Tasks whose headers pass some CONAN pattern.	25d3c1a
Costs:	25d3c2
done (Bruce)	25d3c2a
Gather'Task'Pieces> 6/1 6/2 <Bruce software 0	25d3d
Information:	25d3d1
Generate a view of the Baseline Data that shows selected pieces, e.g., the header plus say the Sub-Contractor: and Buyer(s): sub-branches, of the Task Branch for Tasks whose headers pass some CONAN pattern.	25d3d1a
Costs:	25d3d2
1 day (Bruce)	25d3d2a
Gather'Task'Trees> ??? ??? <Bruce software	25d3e

Baseline -- Bruce

Information:	25d3e1
Generate a view of the Baseline Data that shows the tree of Tasks related by Buyer/Sub-Contractor relations for any starting point (a Task).	25d3e1a
Costs:	25d3e2
2 weeks (Bruce)	25d3e2a
Sub-Contracts:	25d3e3
(,Enter'BD'Buyers)	25d3e3a
BD'PERT'Chart> ??? ??? 4Bruce software	25d3f
Information:	25d3f1
Generate a PERT chart incorporating the Buyer/Sub-Contractor relation from the Baseline Data.	25d3f1a
Costs:	25d3f2
4 weeks (Bruce)	25d3f2a
BD'Dates'To'Xes> 6/1 6/2 <Bruce software 0	25d3g
Information:	25d3g1
Generate a view of the Baseline Data that shows begin- and end-dates as lines of 'x in a calander.	25d3g1a
Costs:	25d3g2
2 days (Bruce)	25d3g2a
Levels'Effort'Format> ??? ??? <Bruce software	25d3h
Information:	25d3h1
Generate a view of the Baseline Data that shows levels-of-effort appropriately formatted.	25d3h1a
Costs:	25d3h2
2 days (Bruce)	25d3h2a

Baseline -- Bruce

Sub-Contracts:	25d3h3
(,Levels'Of'Effort)	25d3h3a
Gather'Tasks'Dates> ??? ??? <Bruce software	25d3i
Information:	25d3i1
Generate a view of the Baseline Data that shows tasks selected by criteria on their begin and/or end-dates.	25d3i1a
Costs:	25d3i2
2 days (Bruce)	25d3i2a
Auto'Update'Dates> ??? ??? <Bruce software	25d3j
Information:	25d3j1
Automatically update begin- and/or end-dates when the dates for a task on which another task is dependent change.	25d3j1a
List'Goals> ??? ??? <Doug Jim? Bruce? ARC *	25e
Information:	25e1
Try to get a complete list of ARC's goals and/or top level Buyers.	25e1a
Buyer(s):	25e2
(,Enter'BR'Buyers)	25e2a
Resource'Accounting> 6/1 ??? <Jim Ed Ken Bruce ??? software NIC 2	25f
Information:	25f1
Develop system for keeping track of how are our various resources are used. These include people time and productivity, computer system power, materials, dollars.	25f1a
Buyer(s):	25f2
(,NIC'Stage'2)	25f2a

Baseline -- Bruce

ARC Operations, MSR?	25f2b
Estimating> ??? ??? <Jim? Bruce? WSD? WHP? ??? software NIC 2	25g
Information:	25g1
Develop a more formal and hopefully more accurate methodology for estimating the costs (including time) of tasks that are to be worked on.	25g1a
Design:	25g2
There seem to be several different man-time estimates:	25g2a
time required to generate the Requirements	25g2a1
time required to generate the Design	25g2a2
time required to implement	25g2a3
estimates befor the design has been completed and estimates after (the latter is probably much more accurate)	25g2ah
Documentation!	26
New'OP'User'Guide> 5/2 5/4 <Walter Bruce	26a
Information:	26a1
Update user guide to include new directive names, new directives, and new syntax and features.	26a1a
RINS!	27
Software'Engineer'Augmentation!	28
Hardware'Upgradel	29
Graphic'Hardcopy'Study> ??? ??? <Roger Walter? Bruce? NIC 0	29a
Information:	29a1
Look at developing an in-house facility for producing text/graphic hardcopy output.	29a1a
Collaboration!	30

Baseline -- Bruce

Miscellaneous!	31
Service'System'Operations!	32
NLS'Maintain> --- --- <Mimi Charles WHP WSD? Bruce? software 0 * 1 2	32a
Subtasks:	32a1
Head'Flag'Bug> ??? ??? <WHP software	32a1a
Information:	32a1a1
Output File sometimes turns off the head flag in the origin statement. -- Bruce WHP	32a1a1a
Name'Hash'Bug> ??? ??? <Bruce WHP software	32a1b
Information:	32a1b1
Certain combinations of statement names and Name delimiter commands don't end up with the name being hashed right.	32a1b1a
Buyer(s):	32a1b2
(,Baseline'Tools)	32a1b2a
Index'Creation'Bug> ??? 5/1 <WSD? Ken? Charles? software	32a1c
Information:	32a1c1
This is the problem which has led to innumerable crashes and prevented us from easily creating titleword indexes	32a1c1a
Buyer(s):	32a1c2
(,Catalog)	32a1c2a
Bug'Mark'Bug> ??? ??? <Charles? Mimi? software	32a1d
Information:	32a1d1
The bug mark does not appear when something in column 72 is bugged. -- Bruce	32a1d1a

Baseline -- Bruce

CONAN'Bugs> ??? ??? <Charles?
software

32ale

Information:

32alel

When the display is recreated with CONAN on, the first statement that passes is often lost. Also if a statement and its first substatement pass, the substatement is lost. Also if a statement that passes is edited (and still passes), it is lost in the next full (not fast) recreate display. Also the Output Processor crashes when the Content Analyzer is on. USUALLY if a statement and its successor should pass, only the first one makes it. Also the last statement in this file keeps coming thru even though it doesn't fit the pattern. -- Bruce

32alela

Break'Statement'Bugs> ??? ??? <Mimi?
software

32alf

Information:

32alf1

A large number of Break Statements eventually results in an Exceed Capacity message. After the message its OK for a while. The sequence BS, JI, BS always produces the message (on a 'd I was giving as a LEVADJ). -- Bruce

32alf1a

Set'Bugs> ??? ??? <Mimi
software

32alg

Information:

32alg1

debug the set command

32alg1a

Transpose'Branch'Bug> ??? ??? <Mimi?
software

32alh

Information:

32alh1

In the old system (5/28) Transpose Branch looped.
-- Bruce

32alh1a

Output'Sequential'Bug> ??? ??? <Mimi?
software

32ali

Information:

32ali1

Output Sequential doesn't work.

32alila

Baseline -- Bruce

Information:	32a2
Bug fixing, cleaning up, speeding up programs.	32a2a
Output'Processor'Maintain> --- --- <Walter Bruce software 0 * 1 2	32b
Subtasks:	32b1
Output'Device'QED> ??? ??? <Walter software	32b1a
Information:	32b1a1
Output Device QED doesn't work. -- Bruce	32b1a1a
PNO'O> ??? ??? <Walter software	32b1b
Information:	32b1b1
PNO=O doesn't work. -- Bruce	32b1b1a
OP'CONAN'Bug> ??? ??? <Mimi software	32b1c
Information:	32b1c1
The Output Processor crashes when the Content Analyzer is on. -- Bruce	32b1c1a
Buyer(s):	32b1c2
(,Baseline'Tools)	32b1c2a
Information:	32b2
Bug fixing, cleaning up, speeding up programs.	32b2a
Accounting> --- --- <Jim Bruce ??? 0 * 1 2	32c
Information:	32c1
Keeping track of money, peoples' time, computer time, supplies used.	32c1a
Plans'Maintenance> --- --- <Bruce ARC 0 * 1 2	32d

Baseline -- Bruce

Information:

32d1

Keeping the planning information up to date.

32d1a

Baseline -- Bruce

<JOURNAL>7230.NLS;2, 7-JUN-71 12:47 HGL ; (Expedite) Title: Author(s):
Bruce L. Parsley/BLP; Distribution: Bruce L. Parsley/BLP; Keywords:
Baseline Record; Clerk: BLP;
Origin: <MSR>JBRUCE.NLS;2, 5-JUN-71 16:50 BLP ;

.PEL; .PGN=PGN-1; .GCR;

Baseline -- WHP

The following is a printout of two views all the task branches from the Baseline Data in which your name appears. In order to get a reasonably accurate picture of what should or will occur in ARC during the next several months, we need help from you in several ways.

1

1. If you are the pusher (if your name is the first after the < in the top statement of a task) for the task, you should make an estimate of the dates for the start and completion (unless "ongoing") of the task. It is realized that such estimates are usually inaccurate, but the guesses will be useful in the balancing process. Please be conservative.

1a

You may want to discuss the estimated dates with the task's buyer and/or the other workers and/or if its a software task the Software Personnel Coordinator (me -- Bruce) as you make them.

1a1

2. Update or note any erroneous or incomplete information you see.

1b

3. Let me know about any tasks that aren't in here or have been completed.

1c

To do this, you should mark this hardcopy with the above information and return it to me - by Tuesday 6/7? -- I will take care of getting all the updating into the file itself. (by the way the file is now (MSR, Basedata,) and no longer Baserec) Feel free to come and talk with me about any of the information or process.

2

The first view has only the top statement of each task and only 1 line of that statement. The second view has the entire task branch in all its gory detail. Mark either view.

3

There is a new convention for dates in Basedata. There can be two forms:

h

6:2 = 2nd week June -- June 12th

4a

6/12 = June 12th -- last day in second week of June

4b

Some correspondences follow:

4c

wks by mo/day: 6/5 6/12 6/19 6/26 7/3 7/10 7/17 7/24 7/31
8/7

4c1

wks by mo/week: 6:1 6:2 6:3 6:4 7:1 7:2 7:3 7:4 7:5
8:1

4c2

Baseline -- WHP

Service'Development!	6
TENEX!	7
Performance'Measure> ??? ??? <Don Roger Ken WHP	7a
Increase'Capacity> ??? ??? <Don Ken WHP	7b
Restrict'Exec'Commands> 5/3 6/3 <John WHP Charles	7c
Drum'Compare> 4/1 ??? <Don Ken Ed WHP Roger Dave John?	7d
Bid'Scheduling> ??? ??? <Ken Don? WHP? Dick? Jim? Bruce?	7e
NIC!	8
Catalog> --- --- <Dick Walter Jean Jim WHP	8a
NLS!	9
TNLS'Features> ??? ??? <WHP	9a
Display'NLS> 3/2 4/3 <Charles Mimi WHP	9b
User'Program'Monitor> ??? ??? <Mimi Charles WHP Ken? Don?	9c
Novice'Mode> 5/3 5/3 <WHP	9d
Help'Command> ??? ??? <WHP	9e
Execute'Status> ??? ??? <WHP?	9f
Calculator> ??? 9/1 <WHP?	9g
Cross'Reference> ??? ??? <WHP? Charles? Mimi?	9h
EXEC'NLS> 4/2 ??? <Dave? Mimi? WHP? Charles?	9i
Fast'Sort> ??? ??? <WSD? Charles? Mimi? WHP?	9j
Collector'Sorter'Branches> ??? ??? <WSD? Charles? Mimi? WHP?	9k
Invisible'Record'Separators> ??? ??? <WHP?	9l
Graphics> ??? ??? <Charles? Mimi? WHP? John? Dave?	9m
SINCE'Etc> ??? ??? <WHP	9n
Command'Backup> ??? ??? <Charles? WHP? Mimi?	9o

Baseline -- WHP

Dialogue'Support!	10
Management'Systems!	11
Roles'Development> --- ??? <Jim Doug Ed Bruce Charles WHP	11a
Estimating> ??? ??? <Jim? Bruce? WSD? WHP? ???	11b
Documentation!	12
ARPA'Proposal> 5/3 6/5 <Doug Dirk Jim Dick Don Roger WHP ???	12a
NLS'Users''Guide> ??? ??? <Dirk Charles? Mimi? WHP?	12b
LLO'Report> ??? ??? <WHP Dirk	12c
RINS!	13
Software'Engineer'Augmentation!	14
Modular'Programming'Talk> 5/2 5/2 <WHP	14a
Modular'Programming> --- ??? <WHP Zerox-people Don	14b
Hardware'Upgrade!	15
Collaboration!	16
Miscellaneous!	17
Service'System'Operations!	18
NLS'Maintain> --- --- <Mimi Charles WHP WSD? Bruce?	18a
Compiler'Maintain> --- --- <WHP Don	18b
	19

Baseline -- WHP

Service'Development!	20
TENEX!	21
Performance'Measure> ??? ??? <Don Roger Ken WHP software NIC 0 #	21a
Information:	21a1
Develop tools for measuring response time and capacity as a function of the number of users, what kind of users, which drums are on, etc.	21a1a
Increase'Capacity> ??? ??? <Don Ken WHP software NIC 0 #	21b
Information:	21b1
Develop plan for increasing capacity -- considering things like more core, disk packs, etc.	21b1a
Buyer(s):	21b2
(,NIC'Stage'2)	21b2a
Restrict'Exec'Commands>-5/3 6/3 <John WHP Charles software NIC 1	21c
Information:	21c1
We need a way to restrict the Exec commands a network user can use.	21c1a
The following set of commands would be allowed to all users.	21c1b
login, logout, auto-logout	21c1b1
copy, delete, expunge, and rename files	21c1b2
directory (simple version), sysstat	21c1b3
all control characters	21c1b4
Requirements:	21c2
(see -- Journal, 6229)	21c2a
Buyer(s):	21c3

Baseline -- WHP

(,NIC'Stage'1)	21c3a
Drum'Compare> 4/1 ??? <Don Ken Ed WHP Roger Dave John? software 1?	21d
Information:	21d1
Decide relative merits of Univac, Bryant, and both drums and decide which to keep.	21d1a
Milestones:	21d2
before 6/2: drum statistics collector so can run tests	21d2a
no decision will be reached before 9/1 to allow statistic gathering and to assure that the heads are not going to crash	21d2b
Bid'Scheduling> ??? ??? <Ken Don? WHP? Dick? Jim? Bruce? software	21e
Information:	21e1
Implement a scheduling algorithm for hardware resources that employs bidding for those resources by the users. BBN people may do it or help.	21e1a
Man-time:	21e2
9 man-weeks [Ken]	21e2a
NIC!	22
Catalog> --- --- <Dick Walter Jean Jim WHP NIC 0 * 1 2	22a
Information:	22a1
There are a number of tasks required to continue to upgrade our capabilities in the cataloging area	22a1a
Buyer(s):	22a2
NIC	22a2a
Sub-Contracts:	22a3
(,Index'Creation'Bug)	22a3a
Subtasks:	22a4

Baseline -- WHP

Complete'New'Catalog> --- 5/4 <Dick Jim NIC 0	22aha
Doc'Catalog'Production> 5/2 5/3 <Dick Jim NIC 0	22ahb
Information:	22ahbl
Document catalog production.	22ahbla
Obsolete'Documents> ??? ??? <Jean Dick NIC 0	22ahc
Information:	22ahcl
How are obsolete documents appearing in the catalog handled.	22ahcla
Improve'Catalog'Produce> ??? 7/1 <Walter WHP software NIC * 1	22ahd
Information:	22ahdl
Improve catalog production process.	22ahdla
Catalog'Entry> ??? ??? <Walter software NIC 1	22ahe
Information:	22ahel
Develop procedures and software aids for entering new catalog items.	22ahela
Initial'Query'Language> ??? 6/3 <Dick Walter software NIC 2	22ahf
NLS!	23
TNLS'Features> ??? ??? <WHP software NIC 0	23a
Information:	23al
These are all the TNLS features that aren't there yet that Stage 0 NIC needs. See the document referenced below for a list.	23ala
Requirements:	23a2
(Journal,6229,)	23a2a

Baseline -- WHP

Display'NLS> 3/2 4/3 <Charles Mimi WHP
software 0

23b

Information:

23b1

Get NLS running on the displays.

23b1a

At the completion date above, NLS will include all the
NLS features of the 940 with the exception of:

23b1b

the calculator

23b1b1

the vector package

23b1b2

the keyword system

23b1b3

executable text

23b1b4

Major new features that will be implemented by that date
are:

23b1c

partial copies

23b1c1

two checkpoints

23b1c2

Jump to Word

23b1c3

Buyer(s):

23b2

(.NIO'Stage'2)

23b2a

Subtasks:

23b3

Tabs> ??? ??? <Mimi
software

23b3a

Information:

23b3a1

Implement tabs.

23b3a1a

Buyer(s):

23b3a2

(.Baseline'Tools)

23b3a2a

Fast'Create'Display> ??? ??? <Mimi? Charles?
software

23b3b

Information:

23b3b1

Baseline -- WHP

Debug fast Create Display (when only a portion of the display, not the whole thing, is reformatted).

CD'Fonts> ??? ??? <Mimi? Charles?
software 23b3b1a 23b3c

Information: 23b3c1

Underline, overbar, boldface, italics fonts in display nls--requires some thought on implementation. 23b3c1a

Journal'Commands> ??? ??? <Harvey
software 23b3d

Information: 23b3d1

Implement journal commands in display nls command parser. 23b3d1a

Collector-Sorter'Commands> ??? ??? <Harvey
software 23b3e

Information: 23b3e1

Implement Collector-Sorter commands in display nls command parser. 23b3e1a

Catalog'Commands> ??? ??? <Harvey
software 23b3f

Information: 23b3f1

Implement Catalog commands in display nls command parser. 23b3f1a

Identification'Commands> ??? ??? <Harvey
software 23b3g

Information: 23b3g1

Implement Identification commands in display nls command parser. 23b3g1a

User'Program'Monitor> ??? ??? <Mimi Charles WHP Ken? Don?
software 0 23c

Information: 23c1

Develop tools for taking measurements, e.g., number of

Baseline -- WHP

times each subroutine is executed, CPU time used by each subroutine, run-time required to execute a command, of user programs, e.g., NLS. 23c1a

Novice'Mode> 5/3 5/3 <WHP
software NIC 1 23d

Information: 23d1

Allows users to be typed "novice" in the identification file. Certain commands will be disallowed 23d1a

Output Processor, Output Device Printer, Output Quickprint, Insert/Output sequential, etc. 23d1b

Sub-Contracts: 23d2

(,Identification'File) 23d2a

Help'Command> ??? ??? <WHP
software NIC 1 23e

Information: 23e1

Allow users to type a question mark during a command a display the options available at that point in the command. 23e1a

Execute'Status> ??? ??? <WHP?
software NIC * 23f

Information: 23f1

Implement the Execute Status command. 23f1a

Calculator> ??? 9/1 <WHP?
software 2 23g

Information: 23g1

Reinstate the old Calculator, add graphics and ability to work on tabular data. 23g1a

Buyer(s): 23g2

MSR 23g2a

Cross'Reference> ??? ??? <WHP? Charles? Mimi?
software 2? 23h

Baseline -- WHP

Information:	23h1
Generate cross references for L10 source files.	23h1a
Buyer(s):	23h2
MSR	23h2a
EXEC'NLS> 4/2 ??? <Dave? Mimi? WHP? Charles? software NIC	23i
Information:	23i1
Put (some) EXEC commands into NLS.	23i1a
Requirements:	23i2
(see -- Journal, 6229)	23i2a
Fast'Sort> ??? ??? <WSD? Charles? Mimi? WHP? software NIC	23j
Information:	23j1
The Collector-Sorter needs a faster sort.	23j1a
Buyer(s):	23j2
(,NIC'Stage'2)	23j2a
Collector'Sorter'Branches> ??? ??? <WSD? Charles? Mimi? WHP? software NIC	23k
Information:	23k1
Ennable the Collector-Sorter to sort branches in addition to/instead of statements.	23k1a
Buyer(s):	23k2
(,NIC'Stage'2)	23k2a
Invisible'Record'Separators> ??? ??? <WHP? software NIC	23l
Information:	23l1
Ability to have Record Separators be invisible.	23l1a
Buyer(s):	23l2

Baseline -- WHP

(,NIC'Stage'2)	23l2a
Graphics> ??? ??? <Charles? Mimi? WHP? John? Dave? software	23m
Information:	23ml
Make a graphics package. May be intimately related to the calculator.	23mla
SINCE'Etc> ??? ??? <WHP software	23n
Information:	23nl
Implement and debug the SINCE, BEFORE, (the constructs dealing with dates in the signature) things in L10.	23nla
Command'Backup> ??? ??? <Charles? WHP? Mimi? software	23o
Information:	23ol
Allow user to undo one or more commands that have been executed.	23ola
Man-time:	23o2
1 man-week (Charles)	23o2a
Dialogue'Support!	24
File'Library'Meeting> 6/1 6/1 <WSD Bruce Charles WHP Mimi software NIC 1	24a
Information:	24al
Hold a meeting to decide roughly how to do the file system.	24ala
File'Library'Stage'0> ??? ??? <WSD software NIC 1	24alb
Information:	24albl
Implement the first version of the File Library System. This will probably only involve a facility for loading Journal entries as a read only "Tree". A Tree is a branch the uppermost	

Baseline -- WHP

member of which is considered to have statement
number zero.

24a1b1a

Master'Catalog'Organization> ??? ??? <WSD
NIC 1

24a1c

Information:

24a1c1

Propose a design for the organization of the
Master Catalog.

24a1c1a

File'Library'System'Design> ??? ??? <WSD
NIC 1

24a1d

Information:

24a1d1

Work out a design for the final, grandiose File
Library System.

24a1d1a

Management'Systems!

25

Roles'Development> --- ??? <Jim Doug Ed Bruce Charles WHP
ARC
1

25a

Information:

25a1

Developing the internal organization of ARC and defining
what kinds of roles there are to play. The idea is to
design an organization and then implement it,
considering the whole thing as an experiment.

25a1a

Subtasks:

25a2

Describe'All'Roles> ??? ??? <Jim Doug Ed Bruce Charles
WHP ???
1

25a2a

Subtasks:

25a2a1

Software'Coord> ??? ??? <Jim Bruce Charles WHP
Doug ???
*

25a2a1a

Pusher'Buyer> ??? ??? <Jim Doug ???
*

25a2a1b

Assign'All'Roles> ??? ??? <Jim Doug Ed
1

25a2b

Baseline -- WHP

Estimating> ??? ??? <Jim? Bruce? WSD? WHP? ???
software NIC 2 25b

Information: 25b1

Develop a more formal and hopefully more accurate
methodology for estimating the costs (including time) of
tasks that are to be worked on. 25b1a

Design: 25b2

There seem to be several different man-time estimates: 25b2a

time required to generate the Requirements 25b2a1

time required to generate the Design 25b2a2

time required to implement 25b2a3

estimates befor the design has been completed and
estimates after (the latter is probably much more
accurate) 25b2a4

Documentation! 26

ARPA'Proposal> 5/3 6/5 <Doug Dirk Jim Dick Don Roger WHP ???
NIC * 26a

Information: 26a1

This is our proposal for the money that pays most of the
bills. DCE must do most of the writing and general
organization. When he has thought through the
organization futher he may be able to assign subtasks to
other members of the group, particuarlly describng
specific, short term plans and relevant background.
Dirk wrote the outline and subtasks that appear below
and they are tentative. 26a1a

Buyer(s): 26a2

ARC general Operations 26a2a

Requirements: 26a3

A document that will show ARPA goals and specific plans
that they are willing to endorse with money and that
will not constrain ARC's future course. 26a3a

Design: 26a4

Proposal outline	26a4a
I. Introduction	26a4b
A. General	26a4b1
B. ARC	26a4b2
C. Summary of Proposed Work	26a4b3
II. Background	26a4c
III. Directions for ARC	26a4d
IV. Proposed Project Activities	26a4e
V. Cost (separate volume)	26a4f
Dates:	26a5
Writing 5/3 6/2	26a5a
Review by DCE JCN DVN 6/1 6/3	26a5b
SRI approval and review 6/4	26a5c
Costs:	26a6
in manhours (estimated by Dirk)	26a6a
Doug: 90	26a6b
Dirk: 60	26a6c
Jim: 30	26a6d
typing: 20	26a6e
others: 40	26a6f
Subtasks:	26a7
Capacity 'Figures' ??? ??? <Doug Dick Don Roger WHP , NIC *	26a7a
Information:	26a7a1
We need \$ figures for proposals to increase our capacity.	26a7a1a

Baseline -- WHP

Doug and Dick are to project user needs (how many people we want to support when) and Don, Roger, and Bill are to figure out what hardware additions are needed to support those users and how much it will cost to acquire them.

26a7a1b

Organization> 5/3 5/4 <Doug
*

26a7b

Introduction> 6/2 <Dirk
*

26a7c

Directions'for'ARC> 5/3 6/2 <Doug
*

26a7d

Proposed'Project'Activities> 5/3 6/2 <Doug ???
*

26a7e

Background> 5/3 6/1 <Doug ???
*

26a7f

Cost> 5/3 6/1 <Jim
*

26a7g

Review> 6/1 6/3 <Doug Jim Dirk
*

26a7h

NLS'Users''Guide> ??? ??? <Dirk Charles? Mimi? WHP?
2

26b

Information:

26b1

A full-blown users' guide for NLS on TENEX.

26b1a

LLO'Report> ??? ??? <WHP Dirk

26c

Information:

26c1

(Possibly) a more formal/detailed LLO document. May just wait for (,Modular'Programming).

26c1a

RINS!

27

Software'Engineer'Augmentation!

28

Modular'Programming'Talk> 5/2 5/2 <WHP
0

28a

Information:

28a1

Baseline -- WHP

Bill will talk about the modular programming system that
is being developed.

28a1a

Design:

28a2

(Mitchell, processes,)

28a2a

Modular'Programming> --- ??? <WHP Zerox-people Don
software

28b

Information:

28b1

Allow programmers to easily modify and debug large
systems of programs by providing facilities for adding
and replacing modules of the system and source language
level debugging.

28b1a

Hardware'Upgrade!

29

Collaboration!

30

Miscellaneous!

31

Service'System'Operations!

32

NLS'Maintain> --- --- <Mimi Charles WHP WSD? Bruce?
software 0 * 1 2

32a

Subtasks:

32a1

Head'Flag'Bug> ??? ??? <WHP
software

32a1a

Information:

32a1a1

Output File sometimes turns off the head flag in
the origin statement. -- Bruce WHP

32a1a1a

Name'Hash'Bug> ??? ??? <Bruce WHP
software

32a1b

Information:

32a1b1

Certain combinations of statement names and Name
delimiter commands don't end up with the name
being hashed right.

32a1b1a

Buyer(s):

32a1b2

(.Baseline'Tools)

32a1b2a

Baseline -- WHP

Index'Creation'Bug> ??? 5/1 <WSD? Ken? Charles?
software 32alc

Information: 32alc1

This is the problem which has led to innumerable
crashes and prevented us from easily creating
titleword indexes 32alc1a

Buyer(s): 32alc2

(,Catalog) 32alc2a

Bug'Mark'Bug> ??? ??? <Charles? Mimi?
software 32ald

Information: 32ald1

The bug mark does not appear when something in
column 72 is bugged. -- Bruce 32ald1a

CONAN'Bugs> ??? ??? <Charles?
software 32ale

Information: 32ale1

When the display is recreated with CONAN on, the
first statement that passes is often lost. Also
if a statement and its first substatement pass,
the substatement is lost. Also if a statement
that passes is edited (and still passes), it is
lost in the next full (not fast) recreate display.
Also the Output Processor crashes when the Content
Analyzer is on. USUALLY if a statement and its
successor should pass, only the first one makes
it. Also the last statement in this file keeps
coming thru even though it doesn't fit the
pattern. -- Bruce 32ale1a

Break'Statement'Bugs> ??? ??? <Mimi?
software 32alf

Information: 32alf1

A large number of Break Statements eventually
results in an Exceed Capacity message. After the
message its OK for a while. The sequence BS, JI,
BS always produces the message (on a 'd I was
giving as a LEVADJ). -- Bruce 32alf1a

Baseline -- WHP

Set'Bugs> ??? ??? <Mimi software	32alg
Information:	32alg1
debug the set command	32alg1a
Transpose'Branch'Bug> ??? ??? <Mimi? software	32alh
Information:	32alh1
In the old system (5/28) Transpose Branch looped. -- Bruce	32alh1a
Output'Sequential'Bug> ??? ??? <Mimi? software	32ali
Information:	32ali1
Output Sequential doesn't work.	32alila
Information:	32a2
Bug fixing, cleaning up, speeding up programs.	32a2a
Compiler'Maintain> --- --- <WHP Don software 0 * 1 2	32b
Subtasks:	32b1
Information:	32b2
Bug fixing, cleaning up, speeding up programs.	32b2a

Baseline -- WHP

<JOURNAL>7231.NLS;2, 7-JUN-71 12:51 HGL ; (Expedite) Title: Author(s):
Bruce L. Parsley/BLP; Distribution: William H. Paxton/WHP; Keywords:
Baseline Record; Clerk: BLP;
Origin: <MSR>JWHP.NLS;1, 5-JUN-71 17:08 BLP ;

.PEL; .PGN=PGN-1; .GCR;

Baseline -- Ed

The following is a printout of two views all the task branches from the Baseline Data in which your name appears. In order to get a reasonably accurate picture of what should or will occur in ARC during the next several months, we need help from you in several ways.

1

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1a

You may want to discuss the estimated dates with the task's buyer and/or the other workers and/or if its a software task the Software Personnel Coordinator (me -- Bruce) as you make them.

1a1

2. Update or note any erroneous or incomplete information you see.

1b

3. Let me know about any tasks that aren't in here or have been completed.

1c

To do this, you should mark this hardcopy with the above information and return it to me - by Tuesday 6/7? -- I will take care of getting all the updating into the file itself. (by the way the file is now (MSR, Basedata,) and no longer Baserec) Feel free to come and talk with me about any of the information or process.

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The first view has only the top statement of each task and only 1 line of that statement. The second view has the entire task branch in all its gory detail. Mark either view.

3

There is a new convention for dates in Basedata. There can be two forms:

4

6:2 = 2nd week June -- June 12th

4a

6/12 = June 12th -- last day in second week of June

4b

Some correspondences follow:

4c

wks by mo/day: 6/5 6/12 6/19 6/26 7/3 7/10 7/17 7/24 7/31
8/7

4c1

wks by mo/week: 6:1 6:2 6:3 6:4 7:1 7:2 7:3 7:4 7:5
8:1

4c2

Baseline -- Ed

Service'Development!	6
New'Operator> ??? ??? <Ed	6a
Operations'Development> ??? ??? <Ed Ken Jim	6b
Hardware'Training> ??? ??? <Ed Martin Roger Bo Fred Jake	6c
Hardware'Doc'Standards> 5/1 5/1 <Ed Martin Roger Bo Fred Jake	6d
TENEX!	7
Drum'Compare> 4/1 ??? <Don Ken Ed WHP Roger Dave John?	7a
NIC!	8
NLS!	9
Dialogue'Support!	10
Management'Systems!	11
Roles'Development> --- ??? <Jim Doug Ed Bruce Charles WHP	11a
Resource'Accounting> 6/1 ??? <Jim Ed Ken Bruce ???	11b
Documentation!	12
RINS!	13
Software'Engineer'Augmentation!	14
Hardware'Upgrade!	15
Printer'Stacker> ??? ??? <Ed?	15a
Install'Bryant> 4/4 5/2 <Ed Roger Bryant-people	15b
Tasker'Upgrade> 7/1 12/1 <Ed	15c
Modify'Keyboard> ??? ??? <Ed Fred	15d
Collaboration!	16
Miscellaneous!	17
Service'System'Operations!	18
Hardware'Maintenance> --- --- <Ed Martin Fred Jake Bo Roger	18a

Baseline -- Ed

Facility Operation> ??? ??? <Ed Ken Mil

18b

Percolation> --- --- <Ed Ken Cindy

18c

19

Baseline -- Ed

Service'Development!	20
New'Operator> ??? ??? <Ed NIC 0	20a
Information: We need another computer operator.	20a1
Operations'Development> ??? ??? <Ed Ken Jim NIC 1	20b
Information:	20b1
Developing procedures and practices for providing service.	20b1a
Milestones:	20b2
3/4 something like a plan will be ready by this date.	20b2a
Hardware'Training> ??? ??? <Ed Martin Roger Bo Fred Jake 1?	20c
Information:	20c1
Train Fred on Tasker and work station input devices, Martin on digital equipment, Jake on the TV equipment, Roger on Cybernex stuff and the paging box, and Bo.	20c1a
Hardware'Doc'Standards> 5/1 5/1 <Ed Martin Roger Bo Fred Jake 2?	20d
Information:	20d1
Decide on standards of hardware documentation. The standards would be applied both to documentation done by ARC people and future contractors.	20d1a
TENEX!	21
Drum'Compare> 4/1 ??? <Don Ken Ed WHP Roger Dave John? software 1?	21a
Information:	21a1
Decide relative merits of Univac, Bryant, and both drums and decide which to keep.	21a1a
Milestones:	21a2
before 6/2: drum statistics collector so can run tests	21a2a

no decision will be reached before 9/1 to allow
statistic gathering and to assure that the heads are not
going to crash

21a2b

NIC!

22

NLS!

23

Dialogue'Support!

24

Management'Systems!

25

Roles'Development> --- ??? <Jim Doug Ed Bruce Charles WHP
ARC
1

25a

Information:

25a1

Developing the internal organization of ARC and defining
what kinds of roles there are to play. The idea is to
design an organization and then implement it,
considering the whole thing as an experiment.

25a1a

Subtasks:

25a2

Describe'All'Roles> ??? ??? <Jim Doug Ed Bruce Charles
WHP ???
1

25a2a

Subtasks:

25a2a1

Software'Coord> ??? ??? <Jim Bruce Charles WHP
Doug ???
*

25a2a1a

Pusher'Buyer> ??? ??? <Jim Doug ???
*

25a2a1b

Assign'All'Roles> ??? ??? <Jim Doug Ed
1

25a2b

Resource'Accounting> 6/1 ??? <Jim Ed Ken Bruce ???
software NIC 2

25b

Information:

25b1

Develop system for keeping track of how are our various
resources are used. These include people time and
productivity, computer system power, materials, dollars.

25b1a

Baseline -- Ed

Buyer(s):	25b2
(,NIC'Stage'2)	25b2a
ARC Operations, MSR?	25b2b
Documentation!	26
RINS!	27
Software'Engineer'Augmentation!	28
Hardware'Upgrade!	29
Printer'Stacker> ??? ??? <Ed?	
0	29a
Information:	29a1
Get a paper stacker that works put on our printer.	29a1a
Install'Bryant> h/h 5/2 <Ed Roger Bryant-people	
0	29b
Information:	29b1
Connect Bryant and check out hardware.	29b1a
Sub-Contracts:	29b2
(,Bryant'System), and (,Bryant'Diagnostics)	29b2a
Tasker'Upgrade> 7/1 12/1 <Ed	29c
Information:	29c1
Our display system needs improvement. Perhaps by tweaking and tuning and modifying our present equipment or perhaps even by getting a new display system.	29c1a
Modify'Keyboard> ??? ??? <Ed Fred	29d
Information:	29d1
Move rubout key and add a line feed key on display keyboards.	29d1a
Collaboration!	30
Miscellaneous!	31

Baseline -- Ed

Service'System'Operations!	32
Hardware'Maintenance> --- --- <Ed Martin Fred Jake Bo Roger 0 * 1 2	32a
Information:	32a1
Trouble-shooting, tweaking, and preventive hardware maintenance.	32a1a
Subtasks:	32a2
Bryant'Disk'Mods> ??? ??? <Roger	32a2a
Information:	32a2a1
Modifications to the Bryant disk controller to clean it up.	32a2a1a
Priority:	32a2a2
Low. It hasn't caused any problems yet.	32a2a2a
Costs:	32a2a3
1 man-week (Roger)	32a2a3a
Printer-Imlac'Interference> ??? ??? <Ed #	32a2b
Information:	32a2b1
fix it so when the printer is down Duvall's Imlac isn't screwed.	32a2b1a
Facility Operation> ??? ??? <Ed Ken Mil 0 * 1 2	32b
Information:	32b1
Whatever it takes to keep things going.	32b1a
Percolation> --- --- <Ed Ken Cindy 0 * 1 2	32c
Information:	32c1
Scheduling hardware use, doing dumps, handling tape library, getting supplies, etc.	32c1a

Requirements:	32c2
Schedule Service	32c2a
Keep standard schedule updated	32c2a1
Negotiate schedule changes	32c2a2
Receive all schedule change requests	32c2a2a
Check verbally before making last minute changes	32c2a2b
Negotiate PM scheduling with C.E.'s and our own hardware people.	32c2a2c
Negotiate Hardware & Software modification scheduling where the system is taken down or jeopardized and schedule special dumps if needed.	32c2a2d
Communicate Schedule Information	32c2a3
Keep schedule board updated	32c2a3a
Keep Answering Service updated	32c2a3b
Monitor answering service	32c2a3c
Inform Operations Software and/or Hardware personnel when they are going to be needed off hours and determine that need where possible.	32c2a3d
Check ahead on irregular or flaky activities (i.e., PM's, Dumps, etc.) where appropriate	32c2a4
Hardware Service	32c2b
Procurement	32c2b1
See that requests for consoles, terminals, acoustic couplers, etc., are satisfied.	32c2b1a
"Help" with TTY patch panel, console patch panel, etc.	32c2b1b
Trouble	32c2b2
Be responsible for the necessary communication related to trouble calls (we will get some bells and switches to help in this area soon)	32c2b2a

Notify user that he has been heard instantly. 32c2b2a1

Give user a practical answer (i.e., down until
??, get another console, you will be tuned
shortly, I'm looking for Martin so wait a
minute) 32c2b2a2

Communicate the problem to the right people and
get an answer 32c2b2a3

Monitor and follow-up all trouble situations.
Don't leave people or troubles in a neglected
state. 32c2b2a4

Operating Instruction 32c2b3

Show people how to operate TV set controls, patch
panels, printer, etc. on request. 32c2b3a

Software Service 32c2c

How-it-works help 32c2c1

Provide for instant you-have-been-heard response. 32c2c1a

Find an answer or an answerer as soon as
practical. 32c2c1b

Provide follow-up. 32c2c1c

Trouble 32c2c2

Software Bug Management
(I /Ed/ don't know anything about managing this
yet) 32c2c2a

Crashes 32c2c2b

Keep users informed of status 32c2c2b1

Respond instantaneously with standard procedure 32c2c2b2

Record the wreckage parameters 32c2c2b2a

Perform start-up operation. 32c2c2b2b

Get help where needed. 32c2c2b2c

Information Service 32c2d

Mag tape manipulation	32c2d1
Punched Paper Tape Processing	32c2d2
Disc Dumping or other back-up system activity	32c2d3

Baseline -- Ed

<JOURNAL>7232.NLS;2, 7-JUN-71 13:18 HGL ; (Expedite) Title: Author(s):
Bruce L. Parsley/BLP; Distribution: Ed K. Van De Riet/EKV; Keywords:
Baseline Record; Clerk: BLP;
Origin: <MSR>JED.NLS;1, 5-JUN-71 17:12 BLP ;

.PEL; .PGN=PGN-1; .GOR;

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8/7

4c1

wks by mo/week: 6:1 6:2 6:3 6:4 7:1 7:2 7:3 7:4 7:5
8:1

4c2

Baseline -- Dirk

Service'Development!	6
TENEX!	7
NIC!	8
NIC'Stage'0> 4/1 6/18 <Dick John Jean Dirk	8a
NIC'Stage'1> 5/4 8/1 <Dick John Marilyn Dirk	8b
NIC'Stage'2> 6/3 9/1 <Dick John Marilyn Dirk	8c
NLS!	9
Dialogue'Support!	10
Management'Systems!	11
Documentation!	12
ONR'Report> ??? 5/2 <Dirk Doug Jim Marilyn	12a
ARPA'Proposal> 5/3 6/5 <Doug Dirk Jim Dick Don Roger WHP ???	12b
NLS'Users''Guide> ??? ??? <Dirk Charles? Mimi? WHP?	12c
Station'Agent'Workbook> --- ??? <Dirk	12d
Rome'Report> --- 6/5 <Dirk Doug Jim Walter Don WSD Cindy	12e
Tree-Meta'Report> ??? 6/1 <Harvey Don Dirk	12f
LLO'Report> ??? ??? <WHP Dirk	12g
RINS!	13
Software'Engineer'Augmentation!	14
Hardware'Upgrade!	15
Collaboration!	16
Miscellaneous!	17
Service'System'Operations!	18
	19

Baseline -- Dirk

Service'Development!	20
TENEX!	21
NIC!	22
NIC'Stage'O> 4/1 6/18 <Dick John Jean Dirk NIC O	22a
Information:	22a1
Stage O is to provide experimental access to the NIC to a limited number of selected sites and users.	22a1a
Requirements:	22a2
Access to Tenex Exec	22a2a
Access to TNLS with local echoing	22a2b
Training for initial users	22a2c
Help for network users when they call with questions	22a2d
Initial NIC DSS - hardcopy delivery	22a2e
Initial Primer and other NIC documentation	22a2f
Total lines in = 2	22a2g
Buyer(s):	22a3
ARC goal	22a3a
Sub-Contracts:	22a4
(,TNLS'Features)	22a4a
(,Initial'TNLS'Primer)	22a4b
(,Journal'User'Guide)	22a4c
(,DSS)	22a4d
Requirements:	22a4d1
(Journal,6222,)	22a4d1a
Subtasks:	22a5

Baseline -- Dirk

NCP> 4/1 5/3 <John software NIC 0	22a5a
Information:	22a5a1
Get the Network Control Program written by BBN into our system and debugged.	22a5a1a
TELNET> 4/1 5/3 <John software NIC 0	22a5b
Information:	22a5b1
Get the TELNET written by BBN into our system and debugged.	22a5b1a
NIC'TENEX'0> 4/3 5/3 <John software NIC 0	22a5c
Information:	22a5c1
Miscellaneous work in TENEX needed for Stage 0.	22a5c1a
Requirements:	22a5c2
Put in user ID info	22a5c2a
Changes to Tenex to access TNLS from Net	22a5c2b
Proper crash recovery for Net	22a5c2c
Access spec	22a5c2d
NIC'Training'Session> 4/3 6/2 <Dick Dirk John NIC 0	22a5d
Information:	22a5d1
This is the two day training session for the programmers we're going to allow access for Stage 0.	22a5d1a
Requirements:	22a5d2
Lesson plan	22a5d2a
Examples	22a5d2b
Practice materials	22a5d2c

Baseline -- Dirk

Milestones:	22a5d3
Course to be given June 16-17	22a5d3a
NIC'Info'Phone> 5/4 6/2 <Jean NIC O	22a5e
Information:	22a5e1
Getting two Enterprise phones installed for NET users to call and ask questions.	22a5e1a
NIC'Stage'1> 5/4 8/1 <Dick John Marilyn Dirk NIC 1	22b
Information:	22b1
Stage 1 is to provide access to the NIC from any site on the Network having the appropriate access software.	22b1a
Requirements:	22b2
Restrict NIC users to a subset of EXEC commands.	22b2a
Access to any site with official Telnet	22b2b
Number of lines in = 4-8 depending on our capability	22b2c
Need a study to determine how to place file space restrictions on network users or sites	22b2d
Final Primer	22b2e
Online files accessed with standard TNLS commands (possibly a simple query language)	22b2f
Catalog	22b2f1
Guide to network personnel	22b2f2
ARPA Network Resources Notebook	22b2f3
NIC guide	22b2f4
Host status	22b2f5
Link for advise mode	22b2g
Network file transfer	22b2h

Baseline -- Dirk

Buyer(s):	22b3
ARC goal	22b3a
Sub-Contracts:	22b4
(,DSS)	22b4a
Requirements:	22b4a1
(Journal,6959,) (Journal,6966,)	22b4a1a
(,Restrict'File'Space'Study)	22b4b
(,Restrict'Exec'Commands)	22b4c
(,NET'Link)	22b4d
(,NET'Advise'Study)	22b4e
(,Network'File'Transfer)	22b4f
(,UCSB'Storage'File)	22b4g
(,Final'TNLS'Primer)	22b4h
(,Journal'User'Guide)	22b4i
Subtasks:	22b5
NIC'TENEX'1> 5/4 7/2 <John software NIC 1	22b5a
Information:	22b5a1
Miscellaneous work in TENEX needed for Stage 1.	22b5a1a
Requirements:	22b5a2
Help create NICTNLS	22b5a2a
New'NCP'Telnet> ??? 7/2 <John software NIC 1	22b5b
Enter'User'ID'Info> ??? 7/2 <John NIC 1	22b5c
Access'Spec> ??? ??? <John NIC 1	22b5d

Baseline -- Dirk

Sub-Contracts:	22b5d1
We must wait for BBN to write new NCP and for the NWG to specify a Telnet and BBN to implement it. 22b5d1a	
NIC'Documentation'1> 5/2 7/2 <Marilyn NIC 1	22b5e
Requirements:	22b5e1
Guide to our online files	22b5e1a
Final NICTNLS Primer	22b5e1b
Guide to Journal system	22b5e1c
Sub-Contracts:	22b5e2
(,Final'TNLS'Primer)	22b5e2a
(,Journal'User'Guide)	22b5e2b
NIC'Training'Plans> ??? 6/2 <Dirk Dick NIC 1	22b5f
Requirements:	22b5f1
Plans for site training	22b5f1a
NIC'Online'Files'1> 5/4 7/2 <Dick Marilyn NIC 1	22b5g
Requirements:	22b5g1
Catalog and simple query facility	22b5g1a
Guide to Network personnel	22b5g1b
Facilities guide	22b5g1c
NIC guide includes NIC TNLS Primer	22b5g1d
Host status	22b5g1e
NIC'Stage'2> 6/3 9/1 <Dick John Marilyn Dirk NIC 2	22c
Information:	22c1

Baseline -- Dirk

Stage 2 is to provide more capacity for Network use and additional facilities as described in Require	22c1a
Requirements:	22c2
Online message delivery	22c2a
Number of lines in greater than in Stage 1	22c2b
Deferred Execution Offline entry	22c2c
Access to remote files	22c2d
Refined resource restrictions	22c2e
Improve query facilities for our online files	22c2f
Buyer(s):	22c3
ARC goal	22c3a
Sub-Contracts:	22c4
(,Display'NLS)	22c4a
(,Accounting)	22c4b
(,Fast'Sort)	22c4c
(,Invisible'Record'Separators)	22c4d
(,Collector'Sorter'Branches)	22c4e
(,Mixed'Text'Graphics)	22c4f
(,Deferred'Execution)	22c4g
(,DSS)	22c4h
Requirements:	22c4h1
Online message delivery	22c4h1a
Message delivery to remote files-dependent on NWG specifying a protocol and sites implementing it	22c4h1b
(,Increase'Capacity)	22c4i
(,Baseline'Conventions)	22c4j

Baseline -- Dirk

(,Baseline'Tools)	22chk
(,Resource'Accounting)	22chl
(,Network'File'Transfer)	22clm
Subtasks:	22c5
Site'Hardcopy'Plan> ??? ??? <John NIC 2	22c5a
Information:	22c5a1
Develop plan for shipping files to remote sites for printing on their printers.	22c5a1a
Sub-Contracts:	22c5a2
(,Network'File'Transfer)	22c5a2a
Limit'Net'Access> 7/2 8/2 <John software NIC 2	22c5b
Requirements:	22c5b1
Access from X lines with maximum y per site.	22c5b1a
NIC'Documentation'2> ??? 8/2 <Marilyn Dick NIC 2	22c5c
Requirements:	22c5c1
On-going improvements and coverage of new features offered to Network	22c5c1a
NET'Site'Training> ??? 8/1 <Dirk Dick NIC 2	22c5d
Requirements:	22c5d1
On-going site training.	22c5d1a
NIC'Online'Files'2> 6/3 8/2 <Dick NIC 2	22c5e
Requirements:	22c5e1
Improve query system using ARC set techniques?	22c5e1a
Improve our online documentation of NIC.	22c5e1b

Baseline -- Dirk

NLS!	23
Dialogue'Support!	24
Management'Systems!	25
Documentation!	26
ONR'Report> ??? 5/2 <Dirk Doug Jim Marilyn O	26a
Information:	26a1
Final report to the Office of Naval Research.	26a1a
ARPA'Proposal> 5/3 6/5 <Doug Dirk Jim Dick Don Roger WHP ??? NIC *	26b
Information:	26b1
Yhis is our proposal for the money that pays most of the bills. DCE must do most of the writing and general organization. When he has thought through the organization futher he may be able to assign subtasks to other members of the group, particuarlly describng specific, short term plans and relevant background. Dirk wrote the outline and subtasks that appear below and they are tentative.	26b1a
Buyer(s):	26b2
ARC general Operations	26b2a
Requirements:	26b3
A document that will show ARPA goals and specific plans that they are willing to endorse with money and that will not constrain ARC's future course.	26b3a
Design:	26b4
Proposal outline	26b4a
I. Introduction	26b4b
A. General	26b4b1
B. ARC	26b4b2
C. Summary of Proposed Work	26b4b3

Baseline -- Dirk

II. Background	26b4c
III. Directions for ARC	26b4d
IV. Proposed Project Activities	26b4e
V. Cost (separate volume)	26b4f
Dates:	26b5
Writing 5/3 6/2	26b5a
Review by DCE JCN DvN 6/1 6/3	26b5b
SRI approval and review 6/4	26b5c
Costs:	26b6
in manhours (estimated by Dirk)	26b6a
Doug: 90	26b6b
Dirk: 60	26b6c
Jim: 30	26b6d
typing: 20	26b6e
others: 40	26b6f
Subtasks:	26b7
Capacity'Figures> ??? ??? <Doug Dick Don Roger WHP NIC *	26b7a
Information:	26b7a1
We need \$ figures for proposals to increase our capacity.	26b7a1a
Doug and Dick are to project user needs (how many people we want to support when) and Don, Roger, and Bill are to figure out what hardware additions are needed to support those users and how much it will cost to acquire them.	26b7a1b
Organization> 5/3 5/4 <Doug *	26b7b

Baseline -- Dirk

Introduction> 6/2 <Dirk	
*	26b7c
Directions'for'ARC> 5/3 6/2 <Doug	
*	26b7d
Proposed'Project'Activities> 5/3 6/2 <Doug ???	
*	26b7e
Background> 5/3 6/1 <Doug ???	
*	26b7f
Cost> 5/3 6/1 <Jim	
*	26b7g
Review> 6/1 6/3 <Doug Jim Dirk	
*	26b7h
NLS'Users''Guide> ??? ??? <Dirk Charles? Mimi? WHP?	
2	26c
Information:	26cl
A full-blown users' guide for NLS on TENEX.	26cla
Station'Agent'Workbook> --- ??? <Dirk	
NIC	26d
Information:	26dl
A workbook kind of thing for teaching TNLS users.	
Intended primarily for NIC Station Agents.	26dla
Rome'Report> --- 6/5 <Dirk Doug Jim Walter Don WSD Cindy	26e
Information:	26el
The report to Rome Air Development Center required by the contract that pays us. This report is for work in 1970. It was originally due in February but has been delayed indefinitely. Doug gave a guideline for writing: that we should try primarily to produce a document that will be useful to us as an archive of 1970.	26ela
Buyer(s):	26e2
The report to Rome is named as a buyer in Doug's scheme of buyers (Journal,6934,2d2).	26e2a

Requirements: 26e3

The requirements are spelled out in the contract with Rome; Mil has it on file. 26e3a

Design: 26e4

The design is the outline of the document (vannouhuys,rrr,:xb) 26e4a

Dates: 26e5

Due in Rome 7/1/71 26e5a

Cost: 26e6

(in hours estimated by Dirk 5/10) 26e6a

Doug:20 26e6b

Dirk: 60 26e6c

Jim:12 26e6d

Walter:8 26e6e

WSD:4 26e6f

Don:12 26e6g

Cindy :20 26e6h

Barbara:8 26e6i

Subtasks: 26e7

Norton'Work> --- 6/2 <Jim Dirk 26e7a

Information: 26e7a1

Jim Norton needs to rework parts of the report dealing with NIC (vannouhuys,rrr,5a) ,with Desing Team Planning (vannouhuys,rrr,7e) and with the Journal (vannouhuys,rrr.7f). 26e7a1a

Higher'Level'Processes> --- 6/2 <Walt 26e7b

Information: 26e7b1

Baseline -- Dirk

WSB needs to complete the section on higher level processes (vannouhuys,rrr,7d). 26e7bla

Remote'Life> --- 6/2 <WSD Dirk 26e7c

Information: 26e7cl

Dirk and WSD need to do further polishing on the account of his remote life (vannouhuys,rrr,7g). 26e7cla

Transferring'Compiler> --- 6/2 <Don Dirk 26e7d

Information: 26e7dl

Don Andrews needs to take his section on transfer the compiler from the 940 too the 10 from rough draft to final form (vannouhuys,rrr,6b). 26e7dla

Future'Plans> --- 6/3 <Doug Dirk 26e7e

Information: 26e7el

Doug needs to write a section on Future plans for the summary (vannouhuys,rrr,2c) and a similar section standing alone (vannouhuys,rrr,8). 26e7ela

References> --- 6/3? <Cindy Dirk 26e7f

Information: 26e7fl

We need to assemble them when Jim and Doug are though writing their sections 26e7fla

Glossary> --- 6/3 <Dirk 26e7g

Information: 26e7gl

We need more and better words and to prune out old words 26e7gla

Editing> --- 6/5 <Dirk 26e7h

Information: 26e7hl

Dirk needs to pat down the prose more, refine printing directives, and shepard through SRI review and printing. 26e7hla

Review> --- 6/4 <Doug 26e7i

Baseline -- Dirk

Information:

26e7i1

Doug has to read and affirm that all this is
consonant with his thinking.

26e7ila

Tree-Meta'Report> ??? 6/1 <Harvey Don Dirk

26f

Information:

26f1

Interim report plus:

26fla

more work on the Program Environment section

26flb

a detailed example

26flc

more examples in the semantic section

26fld

a section on bootstrapping compilers

26fle

possibly a section on history

26flf

L10'Report> ??? ??? <WHP Dirk

26g

Information:

26gl

(Possibly) a more formal/detailed L10 document. May
just wait for (,Modular'Programming).

26gla

RINS!

27

Software'Engineer'Augmentation!

28

Hardware'Upgrade!

29

Collaboration!

30

Miscellaneous!

31

Service'System'Operations!

32

Baseline -- Dirk

<JOURNAL>7236.NLS;2, 7-JUN-71 12:56 HGL ; (Expedite) Title: Author(s):
Bruce L. Parsley/BLP; Distribution: Dirk H. van Nounhuys/DVN; Keywords:
Baseline Record; Clerk: BLP;
Origin: <MSR>JDIRK.NLS;1, 6-JUN-71 13:54 BLP ;

.PEL; .PGN=PGN-1; .GCR;

Baseline -- Ken

The following is a printout of two views all the task branches from the Baseline Data in which your name appears. In order to get a reasonably accurate picture of what should or will occur in ARC during the next several months, we need help from you in several ways.

1

1. If you are the pusher (if your name is the first after the < in the top statement of a task) for the task, you should make an estimate of the dates for the start and completion (unless "ongoing") of the task. It is realized that such estimates are usually inaccurate, but the guesses will be useful in the balancing process. Please be conservative.

1a

You may want to discuss the estimated dates with the task's buyer and/or the other workers and/or if its a software task the Software Personnel Coordinator (me -- Bruce) as you make them.

1a1

2. Update or note any erroneous or incomplete information you see.

1b

3. Let me know about any tasks that aren't in here or have been completed.

1c

To do this, you should mark this hardcopy with the above information and return it to me - by Tuesday 6/7? -- I will take care of getting all the updating into the file itself. (by the way the file is now (MSR, Basedata,) and no longer Baserec) Feel free to come and talk with me about any of the information or process.

2

The first view has only the top statement of each task and only 1 line of that statement. The second view has the entire task branch in all its gory detail. Mark either view.

3

There is a new convention for dates in Basedata. There can be two forms:

4

6:2 = 2nd week June -- June 12th

4a

6/12 = June 12th -- last day in second week of June

4b

Some correspondences follow:

4c

wks by mo/day: 6/5 6/12 6/19 6/26 7/3 7/10 7/17 7/24 7/31
8/7

4c1

wks by mo/week: 6:1 6:2 6:3 6:4 7:1 7:2 7:3 7:4 7:5
8:1

4c2

Baseline -- Ken

Service'Developement!	6
Operations'Developement> ??? ??? <Ed Ken Jim	6a
TENEX!	7
Performance'Measure> ??? ??? <Don Roger Ken WHP	7a
Increase'Capacity> ??? ??? <Don Ken WHP	7b
Startup> 5/2 5/3 <Ken	7c
Directory'Groups> 5/3 5/4 <Jim Ken	7d
Map'Disk'Bad'Spots> ??? ??? <Ken	7e
Bryant'System> ??? ??? <Dave Ken	7f
Print'Queue> ??? ??? <Ken	7g
TENEX'Speed-up> 4/2 ??? <Don Ken	7h
Drum'Compare> 4/1 ??? <Don Ken Ed WHP Roger Dave John?	7i
More'Open'Files> ??? ??? <Ken Wallace?	7j
Reorganize'XCORE> ??? ??? <Ken	7k
Disk'Diagnostics> ??? ??? <Ken Roger? Bo?	7l
Backup'System> ??? ??? <Ken? WSD Wallace?	7m
Login'User'Name> ??? ??? <Ken	7n
Bid'Scheduling> ??? ??? <Ken Don? WHP? Dick? Jim? Bruce?	7o
NIC!	8
NLS!	9
User'Program'Monitor> ??? ??? <Mimi Charles WHP Ken? Don?	9a
Dialogue'Support!	10
Management'Systems!	11
Resource'Accounting> 6/1 ??? <Jim Ed Ken Bruce ???	11a
Documentation!	12

Baseline -- Ken

RINS!	13
Software'Engineer'Augmentation!	14
Hardware'Upgrade!	15
Collaboration!	16
Miscellaneous!	17
Service'System'Operations!	18
TENEX'Maintain> --- --- <Ken John Dave Charles	18a
Facility Operation> ??? ??? <Ed Ken Mil	18b
Percolation> --- --- <Ed Ken Cindy	18c

19

Baseline -- Ken

Service'Development!	20
Operations'Development> ??? ??? <Ed Ken Jim NIC 1	20a
Information:	20a1
Developing procedures and practices for providing service.	20a1a
Milestones:	20a2
3/4 something like a plan will be ready by this date.	20a2a
TENEX!	21
Performance'Measure> ??? ??? <Don Roger Ken WHP software NIC 0 #	21a
Information:	21a1
Develop tools for measuring response time and capacity as a function of the number of users, what kind of users, which drums are on, etc.	21a1a
Increase'Capacity> ??? ??? <Don Ken WHP software NIC 0 #	21b
Information:	21b1
Develop plan for increasing capacity -- considering things like more core, disk packs, etc.	21b1a
Buyer(s):	21b2
(,NIC'Stage'2)	21b2a
Startup> 5/2 5/3 <Ken software NIC 0	21c
Information:	21c1
Ability to start programs automatically at system start-up time, e.g. Recover NLS, OPIM.	21c1a
Directory'Groups> 5/3 5/4 <Jim Ken NIC 0	21d
Information:	21d1

Baseline -- Ken

Set up TENEX's file directory group mechanism to achieve the file protection ARC needs.	21d1a
Map'Disk'Bad'Spots> ??? ??? <Ken software 0	21e
Information:	21e1
Figure out a way and implement it to automatically keep track of the bad spots on the disk and mark them so they won't be used.	21e1a
Costs:	21e2
2 days (Ken)	21e2a
Bryant'System> ??? ??? <Dave Ken software 0	21f
Information:	21f1
Make a system that uses the Bryant drum and not the Univac.	21f1a
Man-time:	21f2
less than 1 man-week [Dave]	21f2a
Print'Queue> ??? ??? <Ken software 1	21g
Information:	21g1
Ability to queue printing jobs and do the printing in sort of background mode, i.e. without tying up a console.	21g1a
TENEX'Speed-up> 4/2 ??? <Don Ken software 1?	21h
Information:	21h1
Increase response times. Think about capacity.	21h1a
Milestones:	21h2
6/1 learning TENEX	21h2a
5/2 tweaking TENEX scheduler parameters	21h2b

Baseline -- Ken

5/2 Design software measurement stuff	21h2c
5/4 debug software measurement stuff	21h2d
6/1 begin scheduler and balance set manipulation	21h2e
6/3 run tests with measurements and evaluate	21h2f
Drum'Compare> 4/1 ??? <Don Ken Ed WHP Roger Dave John? software 1?	21i
Information:	21i1
Decide relative merits of Univac, Bryant, and both drums and decide which to keep.	21i1a
Milestones:	21i2
before 6/2: drum statistics collector so can run tests	21i2a
no decision will be reached before 9/1 to allow statistic gathering and to assure that the heads are not going to crash	21i2b
More'Open'Files> ??? ??? <Ken Wallace? software 1?	21j
Information:	21j1
Change TENEX so a lot more files can be kept open at the same time by a user.	21j1a
Reorganize'XCORE> ??? ??? <Ken software 1?	21k
Information:	21k1
Figure out a way to do PMAP's to sequential files in order to replace the SOUT's (String OUTputs) we are currently using that are so inordinately slow.	21k1a
Disk'Diagnostics> ??? ??? <Ken Roger? Bo? software	21l
Information:	21l1
Adding some bells and whistles to the present diagnostics for the Bryant disk.	21l1a

Baseline -- Ken

Backup'System> ??? ??? <Ken? WSD Wallace?
software

21m

Information:

21m1

A software system that automatically backs up files.
BBN is to send whatever specs they have for this
system..

21mla

Login'User'Name> ??? ??? <Ken
software

21n

Information:

21n1

Do name recognition on user names at login time.

21n1a

Bid'Scheduling> ??? ??? <Ken Don? WHP? Dick? Jim? Bruce?
software

21o

Information:

21o1

Implement a scheduling algorithm for hardware resources
that employs bidding for those resources by the users.
BBN people may do it or help.

21o1a

Man-time:

21o2

9 man-weeks [Ken]

21o2a

NIC!

22

NLS!

23

User'Program'Monitor> ??? ??? <Mimi Charles WHP Ken? Don?
software 0

23a

Information:

23a1

Develop tools for taking measurements, e.g., number of
times each subroutine is executed, CPU time used by each
subroutine, run-time required to execute a command, of
user programs, e.g., NLS.

23ala

Dialogue'Support!

24

Management'Systems!

25

Resource'Accounting> 6/1 ??? <Jim Ed Ken Bruce ???
software NIC 2

25a

Baseline -- Ken

Information:	25a1
Develop system for keeping track of how are our various resources are used. These include people time and productivity, computer system power, materials, dollars.	25a1a
Buyer(s):	25a2
(,NIC'Stage'2)	25a2a
ARC Operations, MSR?	25a2b
Documentation!	26
RINS!	27
Software'Engineer'Augmentation!	28
Hardware'Upgrade!	29
Collaboration!	30
Miscellaneous!	31
Service'System'Operations!	32
Index'Creation'Bug> ??? 5/1 <WSD? Ken? Charles? software	32a
Information:	32a1
This is the problem which has led to innumerable crashes and prevented us from easily creating titleword indexes	32a1a
Buyer(s):	32a1a1
(,Catalog)	32a1a1a
Bug'Mark'Bug> ??? ??? <Charles? Mimi? software	32a1b
Information:	32a1b1
The bug mark does not appear when something in column 72 is bugged. -- Bruce	32a1b1a
CONAN'Bugs> ??? ??? <Charles? software	32a1c
Information:	32a1c1

Baseline -- Ken

When the display is recreated with CONAN on, the first statement that passes is often lost. Also if a statement and its first substatement pass, the substatement is lost. Also if a statement that passes is edited (and still passes), it is lost in the next full (not fast) recreate display. Also the Output Processor crashes when the Content Analyzer is on. USUALLY if a statement and its successor should pass, only the first one makes it. Also the last statement in this file keeps coming thru even though it doesn't fit the pattern. -- Bruce

32alcla

Break'Statement'Bugs> ??? ??? <Mimi?
software

32ald

Information:

32ald1

A large number of Break Statements eventually results in an Exceed Capacity message. After the message its OK for a while. The sequence BS, JI, BS always produces the message (on a 'd I was giving as a LEVADJ). -- Bruce

32aldla

Set'Bugs> ??? ??? <Mimi
software

32ale

Information:

32ale1

debug the set command

32alela

Transpose'Branch'Bug> ??? ??? <Mimi?
software

32alf

Information:

32alf1

In the old system (5/28) Transpose Branch looped.
-- Bruce

32alf1a

Output'Sequential'Bug> ??? ??? <Mimi?
software

32alg

Information:

32alg1

Output Sequential doesn't work.

32alg1a

Information:

32a2

Bug fixing, cleaning up, speeding up programs.

32a2a

Baseline -- Ken

TENEX'Maintain> --- --- <Ken John Dave Charles
software 0 * 1 2

32b

Subtasks:

32b1

Loader'Bug> ??? ??? <John
software 0

32bla

Information:

32bla1

Fix the loader so it does the right thing with the
symbols when loading in the high segment.

32blala

PMAP'Bug> ??? ??? <Ken
software 0

32blb

Information:

32blb1

Bill Duvall thinks he discovered a bug in PMAP
when there are lots of files open.

32blbla

Index'Creation'Bug> ??? 5/1 <WSD? Ken? Charles?
software

32blc

Information:

32blc1

This is the problem which has led to innumerable
crashes and prevented us from easily creating
titleword indexes

32blcla

Special'TTY'I/O> ??? ??? <John Ken
software

32bld

Information:

32bld1

Fix so 15 and 30 character/second terminals don't
drop characters. Also straighten out upper/lower
case problems.

32bldla

GET'JSYS> ??? ??? <Ken
software

32ble

Information:

32ble1

The JSYS that does GETS doesn't work if there are
overlapping pages in the running process and the
file the GET is performed on.

32blela

NOUT'JSYS> ??? ??? <Ken
software

32blf

Baseline -- Ken

Information:	32b1f1
The NOUT JSYS (number output) sometimes clobbers register 3.	32b1f1a
OPENF'JSYS'> ??? ??? <Ken software	32b1g
Information:	32b1g1
OPENF set byte size doesn't make it to the FDB.	32b1g1a
Information:	32b2
Bug fixing, cleaning up, speeding up programs.	32b2a
Index'Creation'Bug'> ??? 5/1 <WSD? Ken? Charles? software	32b2b
Information:	32b2b1
This is the problem which has led to innumerable crashes and prevented us from easily creating titleword indexes	32b2b1a
Information:	32b3
Bug fixing, cleaning up, speeding up programs.	32b3a
Facility Operation> ??? ??? <Ed Ken Mil 0 * 1 2	32c
Information:	32c1
Whatever it takes to keep things going.	32c1a
Percolation> --- --- <Ed Ken Cindy 0 * 1 2	32d
Information:	32d1
Scheduling hardware use, doing dumps, handling tape library, getting supplies, etc.	32d1a
Requirements:	32d2
Schedule Service	32d2a
Keep standard schedule updated	32d2a1

Baseline -- Ken

Negotiate schedule changes	32d2a2
Receive all schedule change requests	32d2a2a
Check verbally before making last minute changes	32d2a2b
Negotiate PM scheduling with C.E.'s and our own hardware people.	32d2a2c
Negotiate Hardware & Software modification scheduling where the system is taken down or jeopardized and schedule special dumps if needed.	32d2a2d
Communicate Schedule Information	32d2a3
Keep schedule board updated	32d2a3a
Keep Answering Service updated	32d2a3b
Monitor answering service	32d2a3c
Inform Operations Software and/or Hardware personnel when they are going to be needed off hours and determine that need where possible.	32d2a3d
Check ahead on irregular of flaky activities (i.e., PM's, Dumps, etc.) where appropriate	32d2a4
Hardware Service	32d2b
Procurement	32d2b1
See that requests for consoles, terminals, acoustic couplers, etc., are satisfied.	32d2b1a
"Help" with TTY patch panel, console patch panel, etc.	32d2b1b
Trouble	32d2b2
Be responsible for the necessary communication related to trouble calls (We will get some bells and switches to help in this area soon)	32d2b2a
Notify user that he has been heard instantly.	32d2b2a1
Give user a practical answer (i.e., down until ??, get another console, you will be tuned shortly, I'm looking for Martin so wait a minute)	32d2b2a2

Communicate the problem to the right people and get an answer	32d2b2a3
Monitor and follow-up all trouble situations. Don't leave people or troubles in a neglected state.	32d2b2a4
Operating Instruction	32d2b3
Show people how to operate TV set controls, patch panels, printer, etc. on request.	32d2b3a
Software Service	32d2c
How-it-works help	32d2c1
Provide for instant you-have-been-heard response.	32d2c1a
Find an answer or an answerer as soon as practical.	32d2c1b
Provide follow-up.	32d2c1c
Trouble	32d2c2
Software Bug Management (I [Ed] don't know anything about managing this yet)	32d2c2a
Crashes	32d2c2b
Keep users informed of status	32d2c2b1
Respond instantaneously with standard procedure	32d2c2b2
Record the wreckage parameters	32d2c2b2a
Perform start-up operation.	32d2c2b2b
Get help where needed.	32d2c2b2c
Information Service	32d2d
Mag tape manipulation	32d2d1
Punched Paper Tape Processing	32d2d2
Disc Dumping or other back-up system activity	32d2d3

Baseline -- Ken

<JOURNAL>7237.NLS;2, 7-JUN-71 12:58 HGL ; (Expedite) Title: Author(s):
Bruce L. Parsley/BLP; Distribution: Kenneth E. Victor/KEV; Keywords:
Baseline Record: Clerk: BLP;
Origin: <MSR>JKEN.NLS;1, 6-JUN-71 15:08 BLP ;

.PEL; .PGN=PGN-1; .GCR;

Baseline -- Dick

The following is a printout of two views all the task branches from the Baseline Data in which your name appears. In order to get a reasonably accurate picture of what should or will occur in ARC during the next several months, we need help from you in several ways.

1

1. If you are the pusher (if your name is the first after the < in the top statement of a task) for the task, you should make an estimate of the dates for the start and completion (unless "ongoing") of the task. It is realized that such estimates are usually inaccurate, but the guesses will be useful in the balancing process. Please be conservative.

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You may want to discuss the estimated dates with the task's buyer and/or the other workers and/or if its a software task the Software Personnel Coordinator (me -- Bruce) as you make them.

1a1

2. Update or note any erroneous or incomplete information you see.

1b

3. Let me know about any tasks that aren't in here or have been completed.

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To do this, you should mark this hardcopy with the above information and return it to me - by Tuesday 6/7? -- I will take care of getting all the updating into the file itself. (by the way the file is now (MSR, Basedata,) and no longer Baserec) Feel free to come and talk with me about any of the information or process.

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The first view has only the top statement of each task and only 1 line of that statement. The second view has the entire task branch in all its gory detail. Mark either view.

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There is a new convention for dates in Basedata. There can be two forms:

4

6:2 = 2nd week June -- June 12th

4a

6/12 = June 12th -- last day in second week of June

4b

Some correspondences follow:

4c

wks by mo/day: 6/5 6/12 6/19 6/26 7/3 7/10 7/17 7/24 7/31
8/7

4c1

wks by mo/week: 6:1 6:2 6:3 6:4 7:1 7:2 7:3 7:4 7:5
8:1

4c2

Baseline -- Dick

Service'Development!	6
TENEX!	7
Bid'Scheduling> ??? ??? <Ken Don? WHP? Dick? Jim? Bruce?	7a
NIC!	8
NIC'Stage'0> 4/1 6/18 <Dick John Jeanne Dirk	8a
NIC'Stage'1> 5/4 8/1 <Dick John Marilyn Dirk	8b
NIC'Stage'2> 6/3 9/1 <Dick John Marilyn Dirk	8c
Catalog> --- --- <Dick Walter Jeanne Jim WHP	8d
More'Clerical'help> ??? ??? <Dick	8e
Syntax'In'Citations> ??? ??? <Dick Doug	8f
Long'Range'NIC'Problems> ??? ??? <Dick	8g
NLS!	9
Mixed'Text'Graphics> ??? 8/1 <Charles? Dick Walter?	9a
Dialogue'Support!	10
Management'Systems!	11
Documentation!	12
ARPA'Proposal> 5/3 6/5 <Doug Dirk Jim Dick Don Roger WHP ???	12a
Final'TNLS'Primer> 5/2 6/3 <Marilyn Dick	12b
RINS!	13
Software'Engineer'Augmentation!	14
Hardware'Upgrade!	15
Collaboration!	16
Miscellaneous!	17
Service'System'Operations!	18
NIC'Operations> --- --- <Dick Jeanne Marilyn Mil	18a

Baseline -- Dick

Service'Development!	20
TENEX!	21
Bid'Scheduling> ??? ??? <Ken Don? WHP? Dick? Jim? Bruce? software	21a
Information:	21a1
Implement a scheduling algorithm for hardware resources that employs bidding for those resources by the users. BBN people may do it or help.	21a1a
Man-time:	21a2
9 man-weeks [Ken]	21a2a
NIC!	22
NIC'Stage'O> 4/1 6/18 <Dick John Jeanne Dirk NIC O	22a
Information:	22a1
Stage O is to provide experimental access to the NIC to a limited number of selected sites and users.	22a1a
Requirements:	22a2
Access to Tenex Exec	22a2a
Access to TNLS with local echoing	22a2b
Training for initial users	22a2c
Help for network users when they call with questions	22a2d
Initial NIC DSS - hardcopy delivery	22a2e
Initial Primer and other NIC documentation	22a2f
Total lines in = 2	22a2g
Buyer(s):	22a3
ARC goal	22a3a
Sub-Contracts:	22a4
(,TNLS'Features)	22a4a

Baseline -- Dick

(,Initial'TNLS'Primer)	22a4b
(,Journal'User'Guide)	22a4c
(,DSS)	22a4d
Requirements:	22a4d1
(Journal,6222,)	22a4d1a
Subtasks:	22a5
NCP> 4/1 5/3 <John software NIC 0	22a5a
Information:	22a5a1
Get the Network Control Program written by BBN into our system and debugged.	22a5a1a
TELNET> 4/1 5/3 <John software NIC 0	22a5b
Information:	22a5b1
Get the TELNET written by BBN into our system and debugged.	22a5b1a
NIC'TENEX'0> 4/3 5/3 <John software NIC 0	22a5c
Information:	22a5c1
Miscellaneous work in TENEX needed for Stage 0.	22a5c1a
Requirements:	22a5c2
Put in user ID info	22a5c2a
Changes to Tenex to access TNLS from Net	22a5c2b
Proper crash recovery for Net	22a5c2c
Access spec	22a5c2d
NIC'Training'Session> 4/3 6/2 <Dick Dirk John NIC 0	22a5d
Information:	22a5d1

Baseline -- Dick

This is the two day training session for the
 programmers we're going to allow access for Stage
 0.

22a5d1a

Requirements:

22a5d2

Lesson plan

22a5d2a

Examples

22a5d2b

Practice materials

22a5d2c

Milestones:

22a5d3

Course to be given June 16-17

22a5d3a

NIC'Info'Phone> 5/4 6/2 <Jeanne
 NIC 0

22a5e

Information:

22a5e1

Getting two Enterprise phones installed for NET
 users to call and ask questions.

22a5e1a

NIC'Stage'1> 5/4 8/1 <Dick John Marilyn Dirk
 NIC 1

22b

Information:

22b1

Stage 1 is to provide access to the NIC from any site on
 the Network having the appropriate access software.

22b1a

Requirements:

22b2

Restrict NIC users to a subset of EXEC commands.

22b2a

Access to any site with official Telnet

22b2b

Number of lines in = 4-8 depending on our capability

22b2c

Need a study to determine how to place file space
 restrictions on network users or sites

22b2d

Final Primer

22b2e

Online files accessed with standard TNLS commands
 (possibly a simple query language)

22b2f

Catalog

22b2f1

Baseline -- Dick

Guide to network personnel	22b2f2
ARPA Network Resources Notebook	22b2f3
NIC guide	22b2f4
Host status	22b2f5
Link for advise mode	22b2g
Network file transfer	22b2h
Buyer(s):	22b3
ARC goal	22b3a
Sub-Contracts:	22b4
(,DSS)	22b4a
Requirements:	22b4a1
(Journal,6959,) (Journal,6966,)	22b4a1a
(,Restrict'File'Space'Study)	22b4b
(,Restrict'Exec'Commands)	22b4c
(,NET'Link)	22b4d
(,NET'Advise'Study)	22b4e
(,Network'File'Transfer)	22b4f
(,UCSB'Storage'File)	22b4g
(,Final'TNLS'Primer)	22b4h
(,Journal'User'Guide)	22b4i
Subtasks:	22b5
NIC'TENEX'1> 5/4 7/2 <John software NIC 1	22b5a
Information:	22b5a1
Miscellaneous work in TENEX needed for Stage 1.	22b5a1a
Requirements:	22b5a2

Baseline -- Dick

Help create NICTNLS	22b5a2a
New'NCP'Telnet> ??? 7/2 <John software NIC 1	22b5b
Enter'User'ID'Info> ??? 7/2 <John NIC 1	22b5c
Access'Spec> ??? ??? <John NIC 1	22b5d
Sub-Contracts:	22b5d1
We must wait for BBN to write new NCP and for the NWG to specify a Telnet and BBN to implement it.	22b5d1a
NIC'Documentation'1> 5/2 7/2 <Marilyn NIC 1	22b5e
Requirements:	22b5e1
Guide to our online files	22b5e1a
Final NICTNLS Primer	22b5e1b
Guide to Journal system	22b5e1c
Sub-Contracts:	22b5e2
(,Final'TNLS'Primer)	22b5e2a
(,Journal'User'Guide)	22b5e2b
NIC'Training'Plans> ??? 6/2 <Dirk Dick NIC 1	22b5f
Requirements:	22b5f1
Plans for site training	22b5f1a
NIC'Online'Files'1> 5/4 7/2 <Dick Marilyn NIC 1	22b5g
Requirements:	22b5g1
Catalog and simple query facility	22b5g1a
Guide to Network personnel	22b5g1b
Facilities guide	22b5g1c

Baseline -- Dick

NIC guide includes NIC TNLS Primer	22b5gld
Host status	22b5gle
NIC 'Stage' 2> 6/3 9/1 <Dick John Marilyn Dirk NIC 2	22c
Information:	22c1
Stage 2 is to provide more capacity for Network use and additional facilities as described in Require	22c1a
Requirements:	22c2
Online message delivery	22c2a
Number of lines in greater than in Stage 1	22c2b
Deferred Execution Offline entry	22c2c
Access to remote files	22c2d
Refined resource restrictions	22c2e
Improve query facilities for our online files	22c2f
Buyer(s):	22c3
ARC goal	22c3a
Sub-Contracts:	22ch
(,Display'NLS)	22cha
(,Accounting)	22chb
(,Fast'Sort)	22chc
(,Invisible'Record'Separators)	22chd
(,Collector'Sorter'Branches)	22che
(,Mixed'Text'Graphics)	22chf
(,Deferred'Execution)	22chg
(,DSS)	22chh
Requirements:	22chh1

Baseline -- Dick

Online message delivery	22c4h1a
Message delivery to remote files-dependent on NWG specifying a protocol and sites implementing it	22c4h1b
(,Increase'Capacity)	22c4i
(,Baseline'Conventions)	22c4j
(,Baseline'Tools)	22c4k
(,Resource'Accounting)	22c4l
(,Network'File'Transfer)	22c4m
Subtasks:	22c5
Site'Hardcopy'Plan> ??? ??? <John NIC 2	22c5a
Information:	22c5a1
Develop plan for shipping files to remote sites for printing on their printers.	22c5a1a
Sub-Contracts:	22c5a2
(,Network'File'Transfer)	22c5a2a
Limit'Net'Access> 7/2 8/2 <John software NIC 2	22c5b
Requirements:	22c5b1
Access from X lines with maximum y per site.	22c5b1a
NIC'Documentation'2> ??? 8/2 <Marilyn Dick NIC 2	22c5c
Requirements:	22c5c1
On-going improvements and coverage of new features offered to Network	22c5c1a
NET'Site'Training> ??? 8/1 <Dirk Dick NIC 2	22c5d
Requirements:	22c5d1
On-going site training.	22c5d1a

Baseline -- Dick

NIC'Online'Files'2> 6/3 8/2 <Dick NIC 2	22c5e
Requirements:	22c5e1
Improve query system using ARC set techniques?	22c5e1a
Improve our online documentation of NIC.	22c5e1b
Catalog> --- --- <Dick Walter Jeanne Jim WHP NIC 0 * 1 2	22d
Information:	22d1
There are a number of tasks required to continue to upgrade our capabilities in the cataloging area	22d1a
Buyer(s):	22d2
NIC	22d2a
Sub-Contracts:	22d3
(,Index'Creation'Bug)	22d3a
Subtasks:	22d4
Complete'New'Catalog> --- 5/4 <Dick Jim NIC 0	22d4a
Doc'Catalog'Production> 5/2 5/3 <Dick Jim NIC 0	22d4b
Information:	22d4b1
Document catalog production.	22d4b1a
Obsolete'Documents> ??? ??? <Jeanne Dick NIC 0	22d4c
Information:	22d4c1
How are obsolete documents appearing in the catalog handled.	22d4c1a
Improve'Catalog'Produce> ??? 7/1 <Walter WHP software NIC * 1	22d4d
Information:	22d4d1

Baseline -- Dick

Improve catalog production process.	22d4d1a
Catalog'Entry> ??? ??? <Walter software NIC 1	22d4e
Information:	22d4e1
Develop procedures and software aids for entering new catalog items.	22d4ela
Initial'Query'Language> ??? 6/3 <Dick Walter software NIC 2	22d4f
More'Clerical'help> ??? ??? <Dick NIC 1	22e
Requirements:	22e1
NIC needs more clerical help.	22e1a
Syntax'In'Citations> ??? ??? <Dick Doug NIC 2	22f
Information:	22f1
Need standard way for citations to be written so that online documents can be accessed	22f1a
Buyer(s):	22f2
ARC goal	22f2a
Long'Range'NIC'Problems> ??? ??? <Dick NIC	22g
Subtasks:	22g1
Microfilm'Study> ??? ??? <Dick NIC	22g1a
Information:	22g1a1
We need to study reader copiers for use experimentally in ARC Journal System	22g1ala
Fiche'Production> ??? ??? <Dick NIC	22g1b
Requirements:	22g1b1

Baseline -- Dick

What service firms are in the area with FR80, etc. 22glbla

Fiche'Reading> ??? ??? <Dick
NIC 22glc

Fiche'Frame'Jumping> ??? ??? <Dick
NIC 22gld

Phototypesetting> ??? ??? <Dick
NIC 22gle

System'for'CAI> ??? ??? <Dick
NIC 22glf

Catalog'Input'Quality'Control> ??? ??? <Dick
NIC 22glg

Advanced'Query'System> ??? ??? <Dick
NIC 22glh

Cataloging'Aids> ??? ??? <Dick
NIC Jeanne 22gli

Data'Management'Needs> ??? ??? <Dick
NIC 22glj

Collection'Distribution'Philo> ??? ??? <Dick
NIC 22glk

Information: 22glkl

Collection and distribution philosophy. 22glkla

Computer'capacity'at'what'cost> ??? ??? <Dick
NIC 22gl1

Accounting> ??? ??? <Jim
NIC 22glm

Requirements: 22glml

Catalog input 22glmla

Duplication 22glmlb

Phone 22glmlc

Mailing 22glmld

Training 22glmle

Baseline -- Dick

System development	22g1m1f
Computer operations	22g1m1g
Buyer(s):	22g1m2
(,NIC'Stage'2)	22g1m2a
Our'Own'Xerox> ??? ??? <Dick NIC	22g1n
NLS!	23
Mixed'Text'Graphics> ??? 8/1 <Charles? Dick Walter? software NIC	23a
Requirements:	23a1
Ways to specify from typewriters drawings in NICTNLS which, when output through Output Processor, would create line printer drawings; we need a proposal.	23ala
Buyer(s):	23a2
(,NIC'Stage'2)	23a2a
Dialogue'Support!	24
Management'Systems!	25
Documentation!	26
ARPA'Proposal> 5/3 6/5 <Doug Dirk Jim Dick Don Roger WHP ??? NIC *	26a
Information:	26a1
This is our proposal for the money that pays most of the bills. DCE must do most of the writing and general organization. When he has thought through the organization futher he may be able to assign subtasks to other members of the group, particuarlly describng specific, short term plans and relevant background. Dirk wrote the outline and subtasks that appear below and they are tentative.	26ala
Buyer(s):	26a2
ARC general Operations	26a2a

Baseline -- Dick

Requirements:	26a3
A document that will show ARPA goals and specific plans that they are willing to endorse with money and that will not constrain ARC's future course.	
	26a3a
Design:	26a4
Proposal outline	26a4a
I. Introduction	26a4b
A. General	26a4b1
B. ARC	26a4b2
C. Summary of Proposed Work	26a4b3
II. Background	26a4c
III. Directions for ARC	26a4d
IV. Proposed Project Activities	26a4e
V. Cost (separate volume)	26a4f
Dates:	26a5
Writing 5/3 6/2	26a5a
Review by DCE JCN DVN 6/1 6/3	26a5b
SRI approval and review 6/4	26a5c
Costs:	26a6
in manhours (estimated by Dirk)	26a6a
Doug: 90	26a6b
Dirk: 60	26a6c
Jim: 30	26a6d
typing: 20	26a6e
others: 40	26a6f
Subtasks:	26a7

Baseline -- Dick

Capacity'Figures> ??? ??? <Doug Dick Don Roger WHP
NIC *

26a7a

Information:

26a7a1

We need \$ figures for proposals to increase our
capacity.

26a7a1a

Doug and Dick are to project user needs (how many
people we want to support when) and Don, Roger,
and Bill are to figure out what hardware additions
are needed to support those users and how much it
will cost to acquire them.

26a7a1b

Organization> 5/3 5/4 <Doug
*

26a7b

Introduction> 6/2 <Dirk
*

26a7c

Directions'for'ARC> 5/3 6/2 <Doug
*

26a7d

Proposed'Project'Activities> 5/3 6/2 <Doug ???
*

26a7e

Background> 5/3 6/1 <Doug ???
*

26a7f

Cost> 5/3 6/1 <Jim
*

26a7g

Review> 6/1 6/3 <Doug Jim Dirk
*

26a7h

Final'TNLS'Primer> 5/2 6/3 <Marilyn Dick
NIC 1

26b

Information:

26b1

A final version of the TNLS primer. This has to include
the meanings of all the error messages and hopefully the
folklore about what to do about them.

26b1a

Buyer(s):

26b2

(,NIC'Stage'1)

26b2a

RINS!

27

Baseline -- Dick

Software'Engineer'Augmentation!	28
Hardware'Upgrade!	29
Collaboration!	30
Miscellaneous!	31
Service'System'Operations!	32
NIC'Operations> --- --- <Dick Jeanne Marilyn Mil O * 1 2	32a
Information:	32a1
Updating catalogues and collections, etc.	32a1a
Subtasks:	32a2
Help'For'Net'Users> 6/3 --- <Marilyn NIC O * 1 2	32a2a
Information:	32a2a1
Answering the phone that NET users call to ask questions about NLS, TENEX, etc.	32a2a1a
Station'Agent'Help> --- --- <Jeanne NIC O * 1 2	32a2b
Requirements:	32a2b1
Station Agent Manual	32a2b1a
Site visits	32a2b1b
Suggestions on storage circulation	32a2b1c
Obtain'documents> --- --- <Jeanne Mil NIC O * 1 2	32a2c
Information:	32a2c1
Obtain ARPA reports and Karp biblio documents for collection	32a2c1a
Buyer(s):	32a2c2
NIC	32a2c2a

Baseline == Dick

<JOURNAL>7238.NLS;2, 7-JUN-71 13:07 HGL ; (Expedite) Title: Author(s):
Bruce L. Parsley/BLP; Distribution: Richard W. Watson/RWW; Keywords:
Baseline Record; Clerk: BLP;
Origin: <MSR>JDICK.NLS;1, 6-JUN-71 15:03 BLP ;

.PEL; .PGN=PGN-1; .GCR;

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8/7

4c1

wks by mo/week: 6:1 6:2 6:3 6:4 7:1 7:2 7:3 7:4 7:5
8:1

4c2

Current Work Tasks for Don

Service'Development!	6
TENEX!	7
Performance'Measure> ??? ??? <Don Roger Ken WHP	7a
Increase'Capacity> ??? ??? <Don Ken WHP	7b
Work'Station'I/O> ??? ??? <John Charles Don?	7c
TENEX'Speed-up> 4/2 ??? <Don Ken	7d
Drum'Compare> 4/1 ??? <Don Ken Ed WHP Roger Dave John?	7e
Bid'Scheduling> ??? ??? <Ken Don? WHP? Dick? Jim? Bruce?	7f
NIC!	8
NLS!	9
User'Program'Monitor> ??? ??? <Mimi Charles WHP Ken? Don?	9a
Dialogue'Support!	10
Management'Systems!	11
Documentation!	12
ARPA'Proposal> 5/3 6/5 <Doug Dirk Jim Dick Don Roger WHP ???	12a
TENEX'Scheduler'Gloss> ??? ??? <Don	12b
Rome'Report> --- 6/5 <Dirk Doug Jim Walter Don WSD Cindy	12c
Tree-Meta'Report> ??? 6/1 <Harvey Don Dirk	12d
RINS!	13
Software'Engineer'Augmentation!	14
Modular'Programming> --- ??? <WHP Zerox-people Don	14a
Hardware'Upgrade!	15
Collaboration!	16
Miscellaneous!	17
Service'System'Operations!	18

BER 7-JUN-71 10:49 7240

Current Work Tasks for Don

compiler'Maintain> --- --- <WHP Don

18a

19

Current Work Tasks for Don

Service'Development!	20
TENEX!	21
Performance'Measure> ??? ??? <Don Roger Ken WHP software NIC O #	21a
Information:	21a1
Develop tools for measuring response time and capacity as a function of the number of users, what kind of users, which drums are on, etc.	21a1a
Increase'Capacity> ??? ??? <Don Ken WHP software NIC O #	21b
Information:	21b1
Develop plan for increasing capacity -- considering things like more core, disk packs, etc.	21b1a
Buyer(s):	21b2
(,NIC'Stage'2)	21b2a
Work'Station'I/O> ??? ??? <John Charles Don? software O	21c
Information:	21c1
Change the way work station I/O is done so that it will be faster and is cleaned up and nice.	21c1a
TENEX'Speed-up> 4/2 ??? <Don Ken software 1?	21d
Information:	21d1
Increase response times. Think about capacity.	21d1a
Milestones:	21d2
6/1 learning TENEX	21d2a
5/2 tweaking TENEX scheduler parameters	21d2b
5/2 Design software measurement stuff	21d2c
5/4 debug software measurement stuff	21d2d

Current Work Tasks for Don

6/1 begin scheduler and balance set manipulation	21d2e
6/3 run tests with measurements and evaluate	21d2f
Drum'Compare> 4/1 ??? <Don Ken Ed WHP Roger Dave John? software 1?	21e
Information:	21e1
Decide relative merits of Univac, Bryant, and both drums and decide which to keep.	21e1a
Milestones:	21e2
before 6/2: drum statistics collector so can run tests	21e2a
no decision will be reached before 9/1 to allow statistic gathering and to assure that the heads are not going to crash	21e2b
Bid'Scheduling> ??? ??? <Ken Don? WHP? Dick? Jim? Bruce? software	21f
Information:	21f1
Implement a scheduling algorithm for hardware resources that employs bidding for those resources by the users. BBN people may do it or help.	21f1a
Man-time:	21f2
9 man-weeks [Ken]	21f2a
NIC!	22
NLS!	23
User'Program'Monitor> ??? ??? <Mimi Charles WHP Ken? Don? software 0	23a
Information:	23a1
Develop tools for taking measurements, e.g., number of times each subroutine is executed, CPU time used by each subroutine, run-time required to execute a command, of user programs, e.g., NLS.	23a1a
Dialogue'Support!	24
Management'Systems!	25

Current Work Tasks for Don

Documentation:	26
ARPA'Proposal> 5/3 6/5 <Doug Dirk Jim Dick Don Roger WHP ??? NIC *	26a
Information:	26a1
Yhis is our proposal for the money that pays most of the bills. DCE must do most of the writing and general organization. When he has thought through the organization futher he may be able to assign subtasks to other members of the group, particuarlly describng specific, short term plans and relevant background. Dirk wrote the outline and subtasks that appear below and they are tentative.	26a1a
Buyer(s):	26a2
ARC general Operations	26a2a
Requirements:	26a3
A document that will show ARPA goals and specific plans that they are willing to endorse with money and that will not constrain ARC's future course.	26a3a
Design:	26a4
Proposal outline	26a4a
I. Introduction	26a4b
A. General	26a4b1
B. ARC	26a4b2
C. Summary of Proposed Work	26a4b3
II. Background	26a4c
III. Directions for ARC	26a4d
IV. Proposed Project Activities	26a4e
V. Cost (separate volume)	26a4f
Dates:	26a5
Writing 5/3 6/2	26a5a

Current Work Tasks for Don

Review by DOE JCN DVN 6/1 6/3	26a5b
SRI approval and review 6/4	26a5c
Costs:	26a6
in manhours (estimated by Dirk)	26a6a
Doug: 90	26a6b
Dirk: 60	26a6c
Jim: 30	26a6d
typing: 20	26a6e
others: 40	26a6f
Subtasks:	26a7
Capacity'Figures> ??? ??? <Doug Dick Don Roger WHP NIC *	26a7a
Information:	26a7a1
We need \$ figures for proposals to increase our capacity.	26a7a1a
Doug and Dick are to project user needs (how many people we want to support when) and Don, Roger, and Bill are to figure out what hardware additions are needed to support those users and how much it will cost to acquire them.	26a7a1b
Organization> 5/3 5/4 <Doug *	26a7b
Introduction> 6/2 <Dirk *	26a7c
Directions'for'ARC> 5/3 6/2 <Doug *	26a7d
Proposed'Project'Activities> 5/3 6/2 <Doug ??? *	26a7e
Background> 5/3 6/1 <Doug ??? *	26a7f

Current Work Tasks for Don

Cost> 5/3 6/1 <Jim	
*	26a7g
Review> 6/1 6/3 <Doug Jim Dirk	
*	26a7h
TENEX'Scheduler'Gloss> ??? ??? <Don	
1	26b
Information:	26b1
An explanation of how the scheduler works.	26b1a
Rome'Report> --- 6/5 <Dirk Doug Jim Walter Don WSD Cindy	26c
Information:	26c1
The report to Rome Air Development Center required by the contract that pays us. This report is for work in 1970. It was originally due in February but has been delayed indefinitely. Doug gave a guideline for writing: that we should try primarily to produce a document that will be useful to us as an archive of 1970.	26c1a
Buyer(s):	26c2
The report to Rome is named as a buyer in Doug's scheme of buyers (Journal,6934,2d2).	26c2a
Requirements:	26c3
The requirements are spelled out in the contract with Rome; Mil has it on file.	26c3a
Design:	26c4
The design is the outline of the document (vannouhuys,rrr,:xb)	26c4a
Dates:	26c5
Due in Rome 7/1/71	26c5a
Cost:	26c6
(in hours estimated by Dirk 5/10)	26c6a
Doug:20	26c6b

Current Work Tasks for Don

Dirk: 60	26c6c
Jim:12	26c6d
Walter:8	26c6e
WSD:4	26c6f
Don:12	26c6g
Cindy :20	26c6h
Barbara:8	26c6i
Subtasks:	26c7
Norton'Work> --- 6/2 <Jim Dirk	26c7a
Information:	26c7a1
Jim Norton needs to rework parts of the report dealing with NIC (vannouhuys,rrr,5a) ,with Desing Team Planning (vannouhuys,rrr,7e) and with the Journal (vannouhuys,rrr,7f).	26c7a1a
Higher'Level'Processes> --- 6/2 <Walt	26c7b
Information:	26c7b1
WSB needs to complete the section on higher level processes (vannouhuys,rrr,7d).	26c7b1a
Remote'Life> --- 6/2 <WSD Dirk	26c7c
Information:	26c7c1
Dirk and WSD need to do further polishing on the account of his remote life (vannouhuys,rrr,7g).	26c7c1a
Transferring'Compiler> --- 6/2 <Don Dirk	26c7d
Information:	26c7d1
Don Andrews needs to take his section on transfer the compiler from the 940 too the 10 from rough draft to final form (vannouhuys,rrr,6b).	26c7d1a
Future'Plans> --- 6/3 <Doug Dirk	26c7e
Information:	26c7e1

Current Work Tasks for Don

Doug needs to write a section on Future plans for the summary (vannouhuys,rrr,2c) and a similar section standing alone (vannouhuys,rrr,8). 26c7ela

References> --- 6/3? <Cindy Dirk 26c7f

Information: 26c7f1

We need to assemble them when Jim and Doug are though writing their sections 26c7fla

Glossary> --- 6/3 <Dirk 26c7g

Information: 26c7g1

We need more and better words and to prune out old words 26c7gla

Editing> --- 6/5 <Dirk 26c7h

Information: 26c7h1

Dirk needs to pat down the prose more, refine printing directives, and shepard through SRI review and printing. 26c7h1a

Review> --- 6/4 <Doug 26c7i

Information: 26c7i1

Doug has to read and affirm that all this is consonant with his thinking. 26c7ila

Tree-Meta'Report> ??? 6/1 <Harvey Don Dirk 26d

Information: 26d1

Interim report plus: 26d1a

more work on the Program Environment section 26d1b

a detailed example 26d1c

more examples in the semantic section 26d1d

a section on bootstrapping compilers 26d1e

possibly a section on history 26d1f

RINS!

Current Work Tasks for Don

Software'Engineer'Augmentation!	28
Modular'Programming> --- ??? <WHP Zerox-people Don software	28a
Information:	28a1
Allow programmers to easily modify and debug large systems of programs by providing facilities for adding and replacing modules of the system and source language level debugging.	28a1a
Hardware'Upgrade!	29
Collaboration!	30
Miscellaneous!	31
Service'System'Operations!	32
Compiler'Maintain> --- --- <WHP Don software 0 * 1 2	32a
Subtasks:	32a1
Information:	32a2
Bug fixing, cleaning up, speeding up programs.	32a2a

BER 7-JUN-71 10:49 7240

Current Work Tasks for Don

<JOURNAL>7240.NLS;2, 7-JUN-71 13:23 HGL ; (Expedite) Title: Author(s):
Bruce L. Parsley/BLP; Distribution: Don I. Andrews/DIA; Keywords: ;
Clerk: BER;
Origin: <MSR>JDON.NLS;1, 6-JUN-71 15:06 BLP ;

Format of an RFC Entry in the Catalog

<NIC>MESS.NLS;2, 7-JUN-71 12:54 RWW ;

1

(M6729) *a1 Arie Shoshani #2 SDC *b2 [ARPA Network Working Group/ *b5 [ARPA Network Working Group/ *c1 NWG/RFC 144 #1 Data Sharing on Computer Networks #6 8p. *d1 30 April 1971 *f1 m *f2 o *r1 NWG/RFC 144 *w1 5-4-71 *w2 5-4-71 *z1 all *z2 NIC NWG *z3 new *

1a

(M6725) *a1 Steve Crocker #2 UCLA-NMC *b2 [ARPA Network Working Group/ *b5 [ARPA Network Working Group/ *c1 NWG/RFC 140 #1 Agenda for the May NWG Meeting #6 3p. *d1 4 May 1971 *f1 m *f2 o *r1 NWG/RFC 140 *w2 5-20-71 *z1 all *z2 NIC NWG *z3 new *

1b

Above are two typical RFC entries in the catalog.

1c

Note the following fields:

1d

*b2- First Organization

1d1

*b5- First Addressee

1d2

*c1-Title and subtitle- The RFC number is the title and the actual title comes after #1 as the subtitle

1d3

*f1 and *f2-memo and original

1d4

*r1- report number

1d5

*z1-NIC holdings all

1d6

*z2-subcollections-NIC and NWG

1d7

RWW 7-JUN-71 13:05 7241

Format of an RFC Entry in the Catalog

<JOURNAL>7241.NLS;2, 7-JUN-71 13:24 HGL ; (Expedite) Title: Author(s):
Richard W. Watson/RWW; Distribution: William S. Duvall, James C. Norton,
Jeanne B. North/WSD JCN JBN; Clerk: RWW;