

several files from USC

(PRO3N (LISPXPRIN1 (QUOTE "FILE CREATED " )	1
T)	1a
(LISPXPRIN1 (QUOTE "23-OCT-72 13:59:38")	2
T)	2a
(LISPXTERPRI T))	3
(LISPXPRINT (QUOTE OUTPUTVARS)	4
T)	4a
[RPAQQ OUTPUTVARS	5
((FNS PRINRAD PRINCLENTRY PRINCL PRINLIS PRINITEM PRINFORM	5a
PRINCLRADS ARGYPES DESCRIPTION PRINTFORM)	5a1
(VARS HFLAG PRINTMACROS FORMTYPE FORMTYPE)	6
(P (EDITE PRINTMACROS (QUOTE ((COMS (##))	7
OK ]	7a
(DEFINEQ	8
	9
(PRINRAD	10
[LAMBDA (RAD MOLFLAG)	10a
(COND	10a1
((OR (ATOM RAD)	10a1a
(IFORM (CAR RAD)))	10a1a1
(PRINFORM RAD))	10a1b
(T (IF (CAR RAD)	10a2
THEN (PRIN1 (CAR RAD))	10a2a
(IF HFLAG	10a2a1

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THEN (PRINCLENTRY	10a2a1a
"H"	10a2a1a1
[ IPLUS (VALENCE (CAR RAD))	10a2a1a2
(COND	10a2a1a2a
(MOLFLAG 0)	10a2a1a2a1
(T -1))	10a2a1a2a2
(IMINUS (CLCOUNT (CDR RAD]	10a2a1a2b
(FUNCTION PRINFORM)))	10a2a2
ELSE (PRIN1 "<"))	11
(PRINCLRADS (CDR RAD)	12
(IF (CAR RAD) THEN MOLFLAG	12a
ELSE (QUOTE <])	12a1
	13
(PRINCLENTRY	14
[LAMBDA (ITEM N FN)	14a
(IF (ILESSP N 1) THEN ITEM	14a1
ELSE (APPLY* FN ITEM)	14a2
(IF (GREATERP N 1) THEN (PRIN1 N])	14a2a
	15
(PRINCL	16
[LAMBDA (CL FN)	16a
(FOR NEW PR IN CL DO (PRINCLENTRY (CAR PR)	16a1
(CDR PR)	16a1a
FN])	16a1b

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(PRINLIS	18
[LAMBDA (L FN)	18a
(MAPRINT L T "<" ">" ", " FN T]]	18a1
	19
(PRINITEM	20
[LAMBDA (X)	20a
(PRIN1 X]]	20a1
	21
(PRINFORM	22
[LAMBDA (FORM)	22a
(COND	22a1
((NLISTP FORM)	22a1a
(PRIN1 FORM))	22a1a1
((EQ (CAR FORM)	22a1b
(QUOTE LIST))	22a1b1
(MAPRINT (CDR FORM)	22a1c
T "[" "]" " " , " (FUNCTION PRINFORM)	22a1c1
T))	22a1c2
((ISFORM (CAR FORM))	23
(PRIN1 "(")	23a
(PRIN1 (DESCRIPTION (CAR FORM)))	23b
(FOR NEW X IN (ARGTYPES (CAR FORM)))	23c
AS NEW Y IN (CDR FORM)	23c1
AS NEW FORMTYPE IS X	23c1a

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DO (PRIN1 " ")	24
(PRINFORM Y))	24a
(PRIN1 ")")	25
(T (SELECTO FORMTYPE	26
[CL (PROG (FORMTYPE)	26a
(PRINCL FORM (FUNCTION PRINFORM]	26a1
[CLCL (PROG ((FORMTYPE (QUOTE CL)))	27
(PRINCL FORM (FUNCTION (LAMBDA (X)	27a
(PRIN1 "(")	27a1
(PRINFORM X)	27a2
(PRIN1 ")")]	27a3
(MOL (PROG (FORMTYPE)	28
(PRINRAD FORM T)))	28a
[RADCL (PROG (FORMTYPE)	29
(PRINCL FORM (FUNCTION PRINRAD]	29a
(RAD (PROG (FORMTYPE)	30
(PRINRAD FORM)))	30a
(MAPRINT FORM T "(" ") " " (FUNCTION PRINFORM)	31
T])	31a
	32
(PRINCLRADS	33
[LAMBDA (CLRADS SPACEFLAG)	33a
(IF (NEQ SPACEFLAG (QUOTE <)) THEN (RPTQ (CLCOUNT CLRADS)	33a1
(PRIN1 ".")))	33a1a

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(FOR NEW PR IN CLRADS FOR NEW I :=(1 (CDR PR))	34
DO (COND	34a
((OR SPACEFLAG HFLAG)	34a1
(SPACES 1)))	34a1a
(PRINRAD (CAR PR])	34b
	35
(ARGTYPES	36
[LAMBDA (FN)	36a
(OR (GETP FN (QUOTE ARGTYPES))	36a1
(ARGLIST FN])	36a1a
	37
(DESCRIPTION	38
[LAMBDA (FN)	38a
(OR (GETP FN (QUOTE DESCRIPTION))	38a1
FN])	38a1a
	39
(PRINTFORM	40
[LAMBDA (FORM HELPFLAG)	40a
(PRINFORM FORM)	40a1
(TERPRI])	40a2
)	41
(RPAQQ HFLAG T)	41a
[RPAQQ PRINTMACROS (COMSQ (M (SHOW)	41b
X	41b1

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(ORR ((E (PRINTFORM (## . X))	41b2
T))	41b2a
(?)))	41c
(M SHOW NEXFORM (SHOW ]	42
(RPAQO FORMTYPE RAD)	43
(RPAQO FORMTYPE RAD)	44
(EDITE PRINTMACROS (QUOTE ((COMS (##))	45
OK)))	45a
STOP	46
(PROGN (LISPXPRI (QUOTE "FILE CREATED ")	46a
T)	46a1
(LISPXPRI (QUOTE "23-OCT-72 14:00:17")	47
T)	47a
(LISPXTERPRI T))	48
(LISPXPRI (QUOTE GENLISPMACROSVARS)	49
T)	49a
(RPAQO GENLISPMACROSVARS ((FNS EVENP)	50
(VARS)	50a
(LMMMAC EVENP)))	50b
(DEFINEQ	51
	52
(EVENP	53
[LAMBDA (N)	53a
(ZEROP (LOGAND 1 N]))	53a1

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)	54
(FIXMACRO (QUOTE EVENP))	54a
STOP	55
(PROGN (LISPPRINT (QUOTE "FILE CREATED " )	55a
T)	55a1
(LISPPRINT (QUOTE "23-OCT-72 14:02:31")	56
T)	56a
(LISPPRINT (QUOTE GENLISPVAR))	57
(LISPPRINT (QUOTE GENLISPVAR))	58
T)	58a
(RPAQO GENLISPVAR ((FNS MAX MIN GROUP3 GROUP2 GROUP1 GROUP)	59
(VARS)))	59a
(DEFINEQ	60
	61
(MAX	62
[LAMBDA (X Y)	62a
(COND	62a1
((IGREATERP X Y)	62a1a
X)	62a1a1
(T Y)])	62a1b
	63
(MIN	64
[LAMBDA (X Y)	64a
(COND	64a1

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((IGREATERP X Y)	64a1a
Y)	64a1a1
(T X])	64a1b
(GROUP3	65
[LAMBDA (L N LL)	66
(IF (ZEROP N) THEN LL	66a
ELSE (FOR L ON L FOR NEW R IN (GROUP3 L (SUB1 N)	66a1
LL)	66a2
LIST	66a2a
(CONS (CAR L)	67
R])	68
(GROUP2	68a
[LAMBDA (LCL)	69
(COND	70
((NULL LCL)	70a
(LIST NIL))	70a1
(T (GROUP3 (CAAR LCL)	70a1a
(CAAR LCL)	70a1a1
(GROUP2 (CDR LCL]))	70a1b
	70a1b1
	70a1b2
(GROUP1	71
[LAMBDA (LCL)	72
	72a



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(MAPCAR (GROUP2 LCL)	72a1
(FUNCTION CLCREATE])	72a1a
(GROUP	73
[LAMBDA (CL FN)	74
(GROUP1 (MAPCAR CL (FUNCTION (LAMBDA (PR)	74a
(CONS (APPLY* FN (CAR PR))	74a1
(CDR PR])	74a1a
)	75
STOP	76
(PROGN (LISPXPRI (QUOTE "FILE CREATED ")	76a
T)	76a1
(LISPXPRI (QUOTE "23-OCT-72 14:02:46")	77
T)	77a
(LISPXTERPRI T))	78
(LISPXPRI (QUOTE EXPANDVARS)	79
T)	79a
[RPAQQ EXPANDVARS ((FNS GENAPPLY FIXFN UNFIXFN ISFORM	80
GENEXPANSION	
MAKELIST)	80a
(VARS MMAC FORMMARKS)	81
(P (EDITE MMAC (QUOTE ((COMS (##))	82
OK ]	82a
(DEFINEQ	83
	84

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(GENAPPLY	85
[LAMBDA (FORM)	85a
(PROG (FN)	85a1
(SETQ FN (OR (GETP (CAR FORM)	85a1a
(QUOTE ADVISED)))	85a1a1
(CAR FORM)))	85b
(RETURN (SELECTQ (GETP (CAR FORM)	86
(QUOTE VALTYPE)))	86a
(STRUC (APPLY FN (CDR FORM)))	87
(MAKELIST (APPLY FN (CDR FORM]))	88
	89
(FIXFN	90
[LAMBDA (FN)	90a
(PROG NIL	90a1
(IF (GETP FN (QUOTE VALTYPE)) THEN (GO L2))	90a1a
(PRIN1 FN)	90a1b
(PRIN1 " VALTYPE? ")	90a1c
L1 (SELECTQ (READ T)	90b
((S (QUOTE STRUC)	90b1
1)	90b1a
(/PUT FN (QUOTE VALTYPE)	90b2
(QUOTE STRUC)))	90b2a
((L LSTRUC MANY LIST)	91
(/PUT FN (QUOTE VALTYPE)	91a

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(QUOTE LSTRUC)))	91a1
(PROGN (PRIN1 " 1 OR MANY ? ")	92
(GO L1)))	92a
L2 [ADVISE FN (QUOTE BEFORE)	93
(LIST (QUOTE RETURN)	93a
([LAMBDA (Z)	93a1
(SELECTQ (GETP FN (QUOTE VALTYPE))	93a1a
(STRUC Z)	93a1a1
(LSTRUC (LIST (QUOTE LIST)	93a1a2
Z))	93a1a2a
Z]	94
(LIST (QUOTE CONS)	95
(KWOTE FN)	95a
(CONS (QUOTE LIST)	95b
(ARGLIST FN]	95b1
(/PUT FN (QUOTE DESCRIPTION)	96
(PROGN (PRIN1 " DESCRIPTION? ")	96a
(READ T)))	96a1
(RETURN FN])	97
	98
(UNFIXFN	99
[LAMBDA (FN)	99a
(APPLY (QUOTE UNADVISE)	99a1
(LIST FN])	99a1a

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( ISFORM	101
[LAMBDA (AT)	101a
(OR (GETD AT)	101a1
(MEMB AT FORMMARKS ])	101a1a
	102
( GENEXPANSION	103
[LAMBDA (FORM OFORM UPFORM)	103a
(COND	103a1
[(EO (CAR FORM)	103a1a
(QUOTE LIST))	103a1a1
(MAKELIST (IF (NUMBERP (CDR OFORM))	103a1b
THEN (FOR NEW L	103a1b1
IN [GROUP1 (LIST (CONS (CDR FORM)	103a1b1a
(CDR OFORM)]	103a1b1a1
XLIST	104
( LSUBST L OFORM UPFORM))	105
ELSE (FOR NEW L IN (CDE FORM)	106
XLIST	106a
(SUBST L FORM UPFORM ]	106b
( T (SUBST (GENAPPLY FORM)	107
FORM UPFORM ])	107a
	108
( MAKELIST	109
[LAMBDA (MAKELISTVAR)	109a

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([LAMBDA (L)	109a1
(IF (CDR L) THEN (CONS (QUOTE LIST)	109a1a
L)	109a1a1
ELSE (CAR L]	110
(MAPCONC MAKELISTVAR (FUNCTION (LAMBDA (Y)	111
(IF (EQ (CAR Y)	111a
(QUOTE LIST)) THEN (APPEND (CDR Y))	111a1
ELSE (LIST Y])	112
)	113
[RPAQQ	113a
MMAC	113a1
(COMSQ	113a2
[M UPFORM (ORR ((LC 0 ISFORM]	113a2a
[M	113a2b
EXPAND	113a2b1
(ORR (NEXFORM [IF (EQ (## 1)	113a2b2
'LIST)	113a2b2a
((BIND [E (SETQ #1 (GENEXPANSION	113a2c
(##)	113a2c1
(## 0)	113a2c2
(## UPFORM]	113a2c3
UPFORM UP (I 1 #1)	113b
1))	113c
((IF (ISFORM (## 1))	114

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(UP (I 1 (GENAPPLY (## 1)))	114a
1]	114a1
(IF (AND (EQ (## 1)	115
(QUOTE LIST))	115a
(EQ (## 0 1)	116
(QUOTE LIST)))	116a
((1)	117
UP	117a
(BO 1)	117b
0)	117c
NIL))	117d
((E (QUOTE CAN'T]	118
(M (EXPAND)	119
X	119a
(LC . X)	119b
EXPAND)	119c
[M ISFORM (IF (ISFORM (## 1]	120
(M NEXTFORM (ORR ((LC (F (G --)	121
N)	121a
ISFORM))	
**122	
(UPFORM)))	123
(M NEXFORM (ORR (ISFORM)	124
(NEXTFORM]	124a
(RPAQQ FORMMARKS NIL)	125

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(EDITE MMAC (QUOTE ((COMS (##))	126
OK)))	126a
STOP	127
(PROGN (LISPXPRI (QUOTE "FILE CREATED ")	127a
T)	127a1
(LISPXPRI (QUOTE "23-OCT-72 14:03:03")	128
T)	128a
(LISPXTERPRI T)	129
(LISPXPRINT (QUOTE CLFNSVARS)	130
T)	130a
(RPAQQ CLFNSVARS	131
((FNS CLPARTITIONS CLDIFF CL=PARTS NUMPARTITIONS CLCOUNT	131a
CLCREATE CLPARTITIONSN CLPARTS CLINSERT)	131a1
(VARS)))	132
(DEFINEQ	133
	134
(CLPARTITIONS	135
[LAMBDA (CL PARTSIZES)	135a
(COND	135a1
((NULL (CDR PARTSIZES))	135a1a
(LIST (LIST CL)))	135a1a1
[(ZEROP (CAR PARTSIZES))	135a1b
(MAPCAR (CLPARTITIONS CL (CDR PARTSIZES))	135a1b1
(FUNCTION (LAMBDA (X)	135a1b1a

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(CONS NIL X]	135a1b1a1
[(EOP (CAR PARTSIZES)	136
(CADR PARTSIZES))	136a
(PROG ((N 1)	137
(THISPART (CAR PARTSIZES)))	137a
(FOR PARTSIZES ON (CDR PARTSIZES)	137b
WHILE (EQP (CAR PARTSIZES)	137b1
THISPART) DO (SETQ N (ADD1 N)))	137b1a
(IF (NULL PARTSIZES) THEN (RETURN (CL=PARTS CL N THISPART)	138
))	138a
(RETURN (FOR NEW BIGPART IN (CLPARTS CL (TIMES N THISPART)	139
)	139a
AS NEW RESTPARTSLIST IS	140
(CLPARTITIONS (CLDIFF CL	141
BIGPART)	141a
PARTSIZES)	142
FOR NEW LITTLEPARTS	143
IN (CL=PARTS BIGPART N THISPART) FOR NEW	144
RESTPARTS	144a
IN RESTPARTSLIST XLIST (APPEND LITTLEPARTS	145
RESTPARTS]	145a
(T (FOR NEW PART IN (CLPARTS CL (CAR PARTSIZES)) FOR NEW PARTS	146
IN (CLPARTITIONS (CLDIFF CL PART)	146a
(CDR PARTSIZES))	146a1



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XLIST	147
(CONS PART PARTS])	148
(CLDIFF	149
	150
[LAMBDA (CL1 CL2)	150a
(COND	150a1
((NOT CL2)	150a1a
CL1)	150a1a1
(T (FOR NEW PR IN CL1 AS NEW CNT IS	150a1b
[DIFFERENCE (CDR PR)	150a1b1
(CDR (OR (SASSOC (CAR PR)	150a1b1a
CL2)	150a1b1a1
(QUOTE (NIL . 0]	150a2
WHEN	151
(GREATERP CNT 0)	152
LIST	153
(CONS (CAR PR)	154
CNT])	154a
	155
(CL=PARTS	156
[LAMBDA (CL NPARTS PARTSIZE)	156a
(COND	156a1
((NULL (CDR CL))	156a1a
(SETQ CL (LIST (CONS (CAAR CL)	156a1a1

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PARTSIZE)))	156a1a1a
(LIST (FOR NEW I :=(1 NPARTS)	157
XLIST CL)))	157a
(T (FOR NEW X IN (NUMPARTITIONS (CDAR CL)	158
NPARTS 0 PARTSIZE) FOR NEW Y	158a
IN (CLPARTITIONS (CDR CL)	159
(FOR NEW XX IN X LIST (DIFFERENCE PARTSIZE	159a
XX)))	159a1
XLIST	160
(FOR NEW XX IN X AS NEW YY	161
IN Y LIST (IF (ZEROP XX) THEN YY	161a
ELSE (CONS (CONS (CAAR CL)	161a1
XX)	161a1a
YY])	162
	163
(NUMPARTITIONS	164
[LAMBDA (N NUMPARTS MINPART MAXPART)	164a
(COND	164a1
[(EQUAL NUMPARTS 1)	164a1a
(COND	164a1a1
((OR (GREATERP MINPART N)	164a1a1a
(LESSP MAXPART N))	164a1a1a1
NIL)	164a1a1b
(T (LIST (LIST N]	164a1a2

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(T (FOR NEW I :=((MAX MINPART (DIFFERENCE N (TIMES (SUB1 NUMPARTS)	164a2
MAXPART)))	164a2a
(MIN MAXPART N)) FOR NEW RESTPART	165
IN (NUMPARTITIONS (DIFFERENCE N I)	166
(SUB1 NUMPARTS)	166a
I MAXPART)	166b
LIST	167
(CONS I RESTPART])	168
	169
(CLCOUNT	170
[LAMBDA (CL)	170a
(FOR NEW X IN CL PLUS (CDR X])	170a1
	171
(CLCREATE	172
[LAMBDA (L)	172a
(PROG (CL)	172a1
(FOR NEW X IN L DO (SETQ CL (CLINSERT X CL)))	172a1a
(RETURN CL])	172a1b
	173
(CLPARTITIONSN	174
[LAMBDA (CL N MINPARTSIZE MAXPARTSIZE)	174a
(FOR NEW PARTSIZES IN (NUMPARTITIONS (CLCOUNT CL)	174a1
N MINPARTSIZE MAXPARTSIZE)	174a1a
NCONC	175

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(CLPARTITIONS CL PARTSIZES])	176
(CLPARTS	177
	178
[LAMBDA (CL PARTSIZE)	178a
(IF (ZEROP PARTSIZE) THEN (LIST NIL)	178a1
ELSEIF (NULL (CDR CL)) THEN (LIST (LIST (CONS (CAAR CL)	178a2
PARTSIZE)))	178a2a
ELSE (PROG (SIZE)	179
[SETQ SIZE (DIFFERENCE PARTSIZE (CLCOUNT (CDR CL)	179a
(RETURN (FOR NEW X :=((MAX SIZE 1)	179b
(MIN PARTSIZE (CDAR CL))) FOR NEW PART	179b1
IN (CLPARTS (CDR CL)	179c
(DIFFERENCE PARTSIZE X))	179c1
XLIST FIRST (IF (LESSP 0 SIZE)	180
THEN NIL	180a
ELSE (CLPARTS (CDR CL)	181
PARTSIZE))	181a
(CONS (CONS (CAAR CL)	182
X)	182a
PART])	183
	184
(CLINSERT	185
[LAMBDA (ITEM CL)	185a
[PROG ((X (SASSOC ITEM CL)))	185a1

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( IF X THEN ( RPLACD X ( ADD1 ( CDR X )))	185a1a
ELSE ( SETQ CL ( CONS ( CONS ITEM 1 )	185a1a1
CL ]	185a1a1a
CL ] )	186
)	187
STOP	188
( PROGN ( LISPXPRIN1 ( QUOTE "FILE CREATED " )	188a
T )	188a1
( LISPXPRIN1 ( QUOTE "23-OCT-72 14:03:31" )	189
T )	189a
( LISPXTERPRI T ) )	190
( LISPXPRINT ( QUOTE TREEVARS )	191
T )	191a
( RPAQQ TREEVARS ( ( FNS GENRADLIST GENRADS GENRADD GENRAD GENMOL	192
VALENCE PERMRADS )	192a
( VARS )	193
( PROP VALENCE C )	194
( PROP VALENCE O )	195
( PROP VALENCE N ) ) )	196
( DEFINEQ	197
	198
( GENRADLIST	199
[ LAMBDA ( CLCL )	199a
( GROUP CLCL ( FUNCTION GENRAD ] )	199a1

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(GENRADS	201
[LAMBDA (CL N)	201a
(IF (NULL CL) THEN (LIST NIL)	201a1
ELSE (FOR NEW PARTITION IN (CLPARTITIONSN CL N 1 (CLCOUNT CL))	201a2
NCONC	201a2a
(GENRADLIST (CLCREATE PARTITION])	201a2b
	202
(GENRADD	203
[LAMBDA (CENTER NEWCL)	203a
(FOR NEW DEGREE :=[ 1 (MIN (CLCOUNT NEWCL)	203a1
(SUB1 (VALENCE CENTER] FOR NEW RADCL	203a1a
IN (GENRADS NEWCL DEGREE)	204
NCONC	204a
(PERMRADES CENTER RADCL T])	204b
	205
(GENRAD	206
[LAMBDA (CL)	206a
(IF (AND (NULL (CDR CL))	206a1
(EQUAL (CDAR CL)	206a1a
1)) THEN (PERMRADES (CAAR CL)	206a1a1
NIL T)	206a1a1a
ELSE (FOR NEW OLDCL ON CL AS NEW CENTER IS (CAAR OLDCL)	207
AS NEW NEWCL IS (CLDIFF	207a
CL	207a1

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(LIST (CONS CENTER 1)))	207a2
NCONC	207b
(GENRADD CENTER NEWCL])	207c
(GENMOL	208
	209
[LAMBDA (CL)	209a
(PROG (MINDEG RESULT NATOMS)	209a1
(IF (EQUAL 1 (SETQ NATOMS (CLCOUNT CL)))	209a1a
THEN (RETURN (PERMRADS (CAAR CL NIL NIL)))	209a1a1
ELSEIF (EVENP NATOMS)	209a1b
THEN (FOR NEW PART IN (CL=PARTS CL 2 (QUOTIENT NATOMS 2)))	209a1b1
FOR NEW RADS IN (GENRADLIST (CLCREATE PART))	209a1b1a
DO (SETQ RESULT (APPEND (PERMRADS NIL RADS NIL)	209a1b1b
RESULT)))	209a1b1b1
(SETQ MINDEG 3)	210
ELSE (SETQ MINDEG 2))	211
(SETQ NATOMS (SUB1 NATOMS))	212
(FOR NEW PAIR IN CL AS NEW CENTER IS (CAR PAIR)	213
AS NEW NEWCL IS (CLDIFF CL	213a
(LIST (CONS CENTER 1)	213a1
))	213a1a
FOR NEW DEG :=(MINDEG (MIN (VALENCE CENTER)	214
NATOMS)) FOR NEW P	214a
IN (CLPARTITIONSN NEWCL DEG 1 (QUOTIENT NATOMS 2))	215

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FOR NEW RADS IN (GENRADLIST (CLCREATE P))	216
DO (SETQ RESULT (NCONC (PERMRADS CENTER RADS NIL)	217
RESULT)))	217a
(RETURN RESULT])	218
	219
(VALENCE	220
[LAMBDA (X)	220a
(COND	220a1
((NOT X)	220a1a
2)	220a1a1
((NUMBERP X)	220a1b
X)	220a1b1
((ATOM X)	220a1c
(GETP X (QUOTE VALENCE)))	220a1c1
(T (FREEVALENCESIZE X])	220a1d
	221
(PERMRADS	222
[LAMBDA (CENT RADS)	222a
(LIST (CONS CENT RADS])	222a1
)	223
(DEFLIST(QUOTE(	224
(C 4)	224a
))(QUOTE VALENCE))	225
	226



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( DEFLIST(QUOTE(	227
(O 2)	227a
))(QUOTE VALENCE))	228
	229
( DEFLIST(QUOTE(	230
(N 3)	230a
))(QUOTE VALENCE))	231
	232
STOP	233
(PROGN (LISPXPRI (QUOTE "FILE CREATED ")	233a
T)	233a1
(LISPXPRI (QUOTE "23-OCT-72 14:03:47")	234
T)	234a
(LISPXTERPRI T))	235
(LISPXPRINT (QUOTE ALLVARS)	236
T)	236a
[RPAQQ ALLVARS ((FNS)	237
(VARS)	237a
[P (PRINT (LOAD (QUOTE COLLECT ]	237b
[P (PRINT (LOAD (QUOTE MACRO ]	237c
[P (PRINT (LOAD (QUOTE RECORD ]	237d
(P (PRINT (LOAD (QUOTE FOR ]	237e
(DEFINEQ	238
)	239

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(PRINT (LOAD (QUOTE COLLECT)))	239a
(PRINT (LOAD (QUOTE MACRO)))	239b
(PRINT (LOAD (QUOTE RECORD)))	239c
(PRINT (LOAD (QUOTE FOR)))	239d
STOP	240
(PROGN (LISPXPRI (QUOTE "FILE CREATED " )	240a
T)	240a1
(LISPXPRI (QUOTE "23-OCT-72 14:04:03")	241
T)	241a
(LISPXTERPRI T)	242
(DEFINEQ	243
	244
(*FOR	245
[LAMBDA (L)	245a
(PROG (N FV PV EPILOGUE PROLOGUE DOFORM DOTYPE VAR RANGE	
LST	245a1
VARNEXT NEXT NEXTS N2 N3 INIT TESTSET)	245a1a
(SETQ N 1)	245a2
FORLOOP	246
[AND (EQ (CAR L)	246a
(QUOTE NEW))	246a1
(+PV (CAR (SETQ L (CDR L]	247
(SETQ VAR (CAR L))	248
(SETQ RANGE (CADDR L))	249
(+NEXT (SETQ VARNEXT (VARNAME "NEXT")))	250

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( SELECTQ	251
(CADR L)	251a
[ IN (+TESTSET (CONDIT (NEGATE (INITL (+PV (SETQ LST	251b
(VARNAME "LIST")	251b1
))	251b2
RANGE))	252
( GONEXTN)))	253
(+TESTSET (SETIT VAR (LIST (QUOTE CAR)	254
LST)))	254a
(+NEXT (SETIT LST (LIST (QUOTE CDR)	255
LST]	255a
[ ON (+TESTSET (CONDIT (NEGATE VAR)	256
(GONEXTN)))	256a
(+NEXT (SETIT (INITL VAR RANGE)	257
(LIST (QUOTE CDR)	257a
VAR]	257a1
[ :=[ SETQ N2 (COND	258
((ATOM (CADR RANGE))	258a
(CADR RANGE))	258a1
(T (INITL (+PV (VARNAME "MAX"))	258b
(CADR RANGE])	258b1
( SETQ N3 (COND	259
[(CDDR RANGE)	259a
(COND	259a1

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((ATOM (CADDR RANGE))	259a1a
(CADDR RANGE))	259a1a1
(T (INITL (+PV (VARNAME "INC"))	259a1b
(CADDR RANGE])	259a1b1
((AND (NUMBERP (CAR RANGE))	260
(NUMBERP (CADR RANGE))	260a
(GREATERP (CAR RANGE)	260b
(CADR RANGE)))	260b1
-1)	261
(T 1)))	262
(INITL VAR (CAR RANGE))	263
(+TESTSET	264
(CONDIT	264a
(COND	264a1
[(NOT (NUMBERP N3))	264a1a
(LIST (QUOTE COND)	264a1a1
(LIST (LIST (QUOTE MINUSP)	264a1a1a
N3)	264a1a1a1
(LIST (QUOTE ILESSP)	264a1b
VAR N2))	264a1b1
(LIST T (LIST (QUOTE	265
OR (LIST (QUOTE ZEROP)	265a
N3)	265a1
(LIST (QUOTE GREATERP)	266

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VAR N2 ]	266a
((MINUSP N3)	267
(LIST (QUOTE ILESSP)	267a
VAR N2))	267a1
(T (LIST (QUOTE IGREATERP)	268
VAR N2)))	268a
(GONEXTN)))	269
(+NEXT (SETIT VAR (LIST (QUOTE IPLUS)	270
VAR N3 ]	270a
(IS (+TESTSET (SETIT VAR RANGE)))	271
(ERROR "INVALID FOR TYPE"))	272
(SETQ L (CDDDR L))	273
ASLOOP	274
(SELECTQ (CAR L)	274a
(AS (SETQ L (CDR L))	274a1
(SETQ NEXTS (APPEND NEXTS NEXT))	274a1a
(SETO NEXT)	274a1b
(GO FORLOOP))	274a1c
(( IF WHEN)	274b
(+TESTSET (CONDIT (NEGATE (CADR L))	274b1
(LIST (QUOTE GO)	274b1a
VARNEXT)))	274b1a1
(SETQ L (CDDDR L)))	275
(UNTIL (+NEXT (CONDIT (CADR L)	276

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(GONEXTN)))	276a
(SETQ L (CDDR L)))	277
(WHILE (+TESTSET (CONDIT (NEGATE (CADR L))	278
(GONEXTN)))	278a
(SETQ L (CDDR L)))	279
(GO FORTEST))	280
(GO ASLOOP)	281
FORTEST	282
(SETQ PROLOGUE (APPEND TESTSET (LIST ( "LOOP" N))	282a
INIT PROLOGUE))	282a1
[SETQ EPILOGUE (CONS ( "NEXT" N)	283
(APPEND (REVERSE NEXT)	283a
(REVERSE NEXTS)	283a1
(CONS (LIST (QUOTE GO)	283a2
( "LOOP" N))	283a2a
EPILOGUE ]	284
[SETQ TESTSET (SETQ INIT (SETQ NEXT (SETQ NEXTS ]	285
(COND	286
((EQ (CAR L)	286a
(QUOTE FOR))	286a1
(SETQ L (CDR L))	286b
(SETQ N (ADD1 N))	286c
(GO FORLOOP)))	286d
(SETQ DOWTYPE (CAR L))	287

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(SETQ DOVAL (CAR (LAST L)))	288
(+PV (QUOTE FOR-VALUE))	289
(SETQ FV (SELECTQ DOTYPE	290
((APPEND LIST NCONC)	290a
(QUOTE (CAR FOR-VALUE)))	290a1
(QUOTE FOR-VALUE)))	290b
[ SETQ DOFORM	291
(SELECTQ	291a
DOTYPE	291a1
[(AND OR)	291a2
(CONDIT (LIST (SELECTQ DOTYPE	291a2a
(AND (INITL (QUOTE FOR-VALUE)	291a2a1
T)	291a2a1a
(QUOTE NOT))	291a3
(QUOTE PROGN))	292
(SETIT (QUOTE FOR-VALUE)	293
DOVAL))	293a
(QUOTE (RETURN FOR-VALUE]	294
(PROG2 (SETIT (QUOTE FOR-VALUE)	295
DOVAL))	295a
(DO DOVAL)	296
(SETIT (QUOTE FOR-VALUE)	297
(CONS (OR [CDR (ASSOC DOTYPE	297a
(QUOTE ((LIST . TCONC)	297a1

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(NCONC . LCONC)	297a1a
(XLIST . CONS)	297a1b
(APPEND . LCONC]	297a1c
DOTYPE)	298
(SELECTQ DOTYPE	299
((LIST NCONC)	299a
(LIST (QUOTE FOR-VALUE)	299a1
DOVAL))	299a1a
(APPEND (LIST 'FOR-VALUE	300
(LIST 'APPEND DOVAL)))	300a
(LIST DOVAL (QUOTE FOR-VALUE]	301
[COND	302
((EQ (CAR (SETQ L (CDR L)))	302a
(QUOTE FIRST))	302a1
(INITL (QUOTE FOR-VALUE)	302b
(SELECTQ	302b1
DOTYPE	302b1a
[(LIST APPEND NCONC)	302b1b
(COND	302b1b1
((NLISTP (CADR L))	302b1b1a
(LIST [QUOTE (LAMBDA (FOR% INIT)	302b1b1a1
(CONS FOR% INIT	302b1b1a1a
(LAST FOR% INIT]	302b1b1a1a1
(CADR L)))	302c



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(T (CONS (CADR L)	303
(LAST (CADR L]	303a
(CADR L)))	304
(SETQ L (CDDR L)))	305
((MEMB DOTYPE (QUOTE (PLUS IPLUS TIMES ITIMES MAX MIN)))	306
(INITL (QUOTE FOR-VALUE)	306a
(CDR (ASSOC DOTYPE (QUOTE ((PLUS . 0)	306a1
(IPLUS . 0)	306a1a
(TIMES . 1)	306a1b
(ITIMES . 1]	306a1c
(RETURN (CONS (QUOTE PROG)	307
(CONS PV (APPEND INIT (REVERSE PROLOGUE)	307a
(REVERSE (CDR (REVERSE L)))	307a1
(LIST DOFORM)	307a2
EPILOGUE	307a3
(LIST (QUOTE RETURN)	307a4
(LIST (QUOTE RETURN)	307a4a
FV]))	307a4a1
	308
(+NEXT	309
[LAMBDA (ITEM)	309a
(SETQ NEXT (CONS ITEM NEXT))	309a1
ITEM])	309a2

310

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(VARNAME	311
[LAMBDA (STR)	311a
(PACK (LIST STR "*" VAR))	311a1
	312
(CONDIT	313
[LAMBDA (PRD DO)	313a
(LIST (QUOTE COND)	313a1
(LIST PRD DO)]	313a1a
	314
(SETIT	315
[LAMBDA (VAR VAL)	315a
(AND (NOT (EQ VAR VAL))	315a1
(LIST (QUOTE SETQ)	315a1a
VAR VAL])	315a1a1
	316
(INITL	317
[LAMBDA (VAR VAL)	317a
(SETQ INIT (CONS (SETIT VAR VAL)	317a1
INIT))	317a1a
VAR])	318
	319
(+PV	320
[LAMBDA (VAR)	320a
(SETQ PV (CONS VAR PV))	320a1

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VAR ])	320a2
(GONEXTN	321
[LAMBDA NIL	322
(LIST (QUOTE GO)	322a
(COND	322a1
((EQP N 1)	322a1a
(QUOTE RETURN))	322a1a1
(T (PACK (LIST "NEXT*" (SUB1 N ])	322a1a2
(	323
[LAMBDA (STR VAL)	324
(PACK (LIST STR "*" N ])	324a
(+TESTSET	324a1
[LAMBDA (ITEM)	325
(SETQ TESTSET (CONS ITEM TESTSET))	326
ITEM ])	326a
(NEGATE	326a1
[LAMBDA (EXP)	326a2
(SELECTQ (CAR EXP)	327
((NOT NULL)	328
(CADR EXP))	328a
	328a1
	328a1a
	328a1a1

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(LIST (QUOTE NOT)	328a1b
EXP])	328a1b1
(*IF	329
[LAMBDA (L)	330
(AND L (CONS [CONS (CAR L)	330a
(COND	330a1
((NOT (EQ (CADR L)	330a1a
(QUOTE THEN)))	330a1a1
(ERROR L "NO CORRESPONDING THEN IN IF"))	330a1a1a
(T (SETQ L (CDDR L))	330b
(THENCLAUSE]	331
(COND	331a
((NULL L)	332
NIL)	332a
((EQ (CAR L)	332a1
(QUOTE	332b
ELSEIF))	332b1
(*IF (CDR L)))	332b1a
((EQ (CAR (SETQ L (CDR L)))	332c
(QUOTE IF))	333
(*IF (CDR L)))	333a
(T (LIST (CONS T (THENCLAUSE]))	334
	335
	336

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( THENCLAUSE	337
[ LAMBDA NIL	337a
( COND	337a1
([ OR ( NULL L)	337a1a
( MEMB ( CAR L)	337a1a1
( QUOTE ( ELSE	337a1a1a
ELSEIF ]	337a1a1a1
( LIST NIL))	338
[ [ OR ( NOT ( CDR L))	339
( MEMB ( CADR L)	339a
( QUOTE ( ELSE	339a1
ELSEIF ]	339a1a
( PROG1 ( LIST ( CAR L))	340
( SETQ L ( CDR L ]	340a
( T ( CONS ( CAR L)	341
( PROG1 ( SETQ L ( CDR L))	341a
( THENCLAUSE ])	341a1
	342
( FOR	343
[ NLAMBDA FOR-EXPRESSION	343a
( EVAL (*FOR FOR-EXPRESSION])	343a1
	344
( IF	345
[ NLAMBDA IF-EXPRESSION	345a

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(EVAL (CONS (QUOTE COND)	345a1
(*IF IF-EXPRESSION])	345a1a
)	346
(LISPXPRINT (QUOTE FORFNS)	346a
T)	346a1
(RPAQQ FORFNS	347
(*FOR +NEXT VARNAME CONDIR SETIT INITL +PV GONEXTN +TESTSET	347a
NEGATE *IF THENCLAUSE FOR IF))	347a1
(LISPXPRINT (QUOTE FORVARS)	348
T)	348a
(RPAQQ FORVARS ((P (/SET (QUOTE NOFNS)	349
(UNION (QUOTE (FOR IF))	349a
NOFNS))	349a1
(/SET (QUOTE QUOTEFNS)	350
NIL))	350a
(LMMAC FOR)	351
(LMMAC IF)))	352
(/SET (QUOTE NOFNS)	353
(UNION (QUOTE (FOR IF))	353a
NOFNS))	353a1
(/SET (QUOTE QUOTEFNS)	354
NIL)	354a
(FIXMACRO (QUOTE FOR))	355
(FIXMACRO (QUOTE IF))	356

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STOP	357
(PROGN (LISPXPRINI (QUOTE "FILE CREATED ")	357a
T)	357a1
(LISPXPRINI (QUOTE "23-OCT-72 14:04:32")	358
T)	358a
(LISPXTERPRI T))	359
(DEFINEQ	360
	361
(RECORD	362
[LAMBDA (NAME FIELD RECORDFLG)	362a
(COND	362a1
(FIELD (/PUT NAME (QUOTE RECORD)	362a1a
FIELD))	362a1a1
[(SETQ FIELD (GETP NAME (QUOTE RECORD]	363
(T (ERROR "EMPTY RECORD" NAME)))	364
(SETQ RECORDFLG T)	365
[MACRO (LIST (LIST NAME	366
(SUBST FIELD (QUOTE FIELD)	366a
(QUOTE (NLAMBDA RECORDVAR	366a1
(SETQ RECORDVAR	366a1a
(REMOVE (QUOTE IS)	366a1a1
(REMOVE (QUOTE =)	366a1a1a
RECORDVAR)))	366a1a1a1
(EVAL (COMPOSE RECORDVAR	367

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(QUOTE FIELD]	367a
(RECD0 FIELD (QUOTE X))	368
(AND (GETD (QUOTE FILEADD))	369
[NOT (MEMB (CAR (QUOTE CURRENTFILE))	369a
(QUOTE (NOBIND NIL]	369a1
(FILEADD RECORD NAME))	370
(SETQ RECORDFLG NIL)	371
NAME]])	372
	373
(RECD0	374
[LAMBDA (FORMAT DEF)	374a
(COND	374a1
((NULL FORMAT)	374a1a
NIL)	374a1a1
((LISTP FORMAT)	374a1b
(RECD0 (CAR FORMAT)	374a1b1
(LIST (QUOTE CAR)	374a1b1a
DEF))	374a1b1a1
(RECD0 (CDR FORMAT)	375
(LIST (QUOTE CDR)	375a
DEF)))	375a1
(T	376
(MACRO	376a
(LIST	376a1



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(LIST FORMAT	376a1a
(SUBST DEF (QUOTE DEF)	376a1a1
(QUOTE (NLAMBDA L	376a1a1a
(SETQ L (REMOVE (QUOTE OF)	376a1a1a1
L))	376a1a1a1a
(EVAL (SUBST (COND	377
((NULL (CDR L))	377a
(CAR L))	377a1
(T L))	377b
'X	378
(QUOTE DEF])	379
(COMPOSE	380
[LAMBDA (L FIELD)	381
(SELECTQ (CAR L)	381a
[FROM (COND	381a1a
((ATOM (CADR L))	381a1a1
(COMPOSE1 L FIELD (CADR L)))	381a1a1a
(T (LIST (LIST (QUOTE LAMBDA)	381a1a2
(QUOTE (COMPOSEVAR))	381a1a2a
(COMPOSE1 L FIELD (QUOTE COMPOSEVAR)	381a1a2b
))	381a1a2b1
(CADR L]	382
[DFROM (COND	383

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[(ATOM (CADR L))	383a
(COND	383a1
((EQ [CADR (SETQ FIELD (COMPOSE1	383a1a
L FIELD (CADR L])	383a1a1
(CADR L))	384
FIELD)	385
(T (LIST (QUOTE PROG)	386
FIELD	386a
(CADR L])	386b
(T (LIST (LIST (QUOTE LAMBDA)	387
(QUOTE (COMPOSEVAR))	387a
(COMPOSE1 L FIELD (QUOTE	387b
COMPOSEVAR))	387b1
(QUOTE COMPOSEVAR))	388
(CADR L])	389
(COMPOSE1 L FIELD (QUOTE COMPOSEVAR])	390
	391
(COMPOSE1	392
[LAMBDA (L FIELD DEF)	392a
(PROG (K)	392a1
(COND	392a1a
((SETQ K (COMPOSE2 L FIELD DEF))	392a1a1
(CAR K))	392a1a1a
(T (COMPOSE3 L FIELD DEF])	392a1a2

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(COMPOSE2	394
[LAMBDA (L FIELD DEF)	394a
(COND	394a1
((NULL FIELD)	394a1a
NIL)	394a1a1
[(ATOM FIELD)	394a1b
(AND (MEMB FIELD L)	394a1b1
(SELECTQ (CAR L)	394a1b1a
[DFROM (LIST (LIST (SELECTQ (CAR DEF)	394a1b1a1
(CAR (QUOTE RPLACA))	394a1b1a1a
(QUOTE RPLACD))	394a1b1a1b
(CADR DEF)	394a1c
(SUBST DEF (QUOTE **)	394a1d
(GET L FIELD]	394a1d1
(LIST (SUBST DEF (QUOTE **)	395
(GET L FIELD]	395a
(T	396
(PROG (KA KD)	396a
(SETQ KD (COMPOSE2 L (CDR FIELD)	396a1
(LIST (QUOTE CDR)	396a1a
DEF)))	396a1a1
(SETQ KA (COMPOSE2 L (CAR FIELD)	397
(LIST (QUOTE CAR)	397a
DEF)))	397a1

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(AND (NULL KA)	398
(NULL KD)	398a
(RETURN NIL))	398b
(RETURN	399
(LIST	399a
(SELECTQ (CAR L)	399a1
(DFROM (REPLACE (CAR KA)	399a1a
(CAR KD)))	399a1a1
(CONS [COND	400
(KA (CAR KA))	400a
(T (COMPOSE1 L (CAR FIELD)	400b
(LIST (QUOTE CAR)	400b1
DEF])	400b1a
(COND	401
(KD (CAR KD))	401a
(T (COMPOSE1 L (CDR FIELD)	401b
(LIST (QUOTE CDR)	401b1
DEF]))	401b1a
	402
(COMPOSE3	403
[LAMBDA (L FIELD DEF)	403a
(SELECTQ (CAR L)	403a1
(FROM DEF)	403a1a
(COMPOSE4 FIELD])	403a1b

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(COMPOSE4	405
[LAMBDA (FIELD)	405a
(COND	405a1
((NULL FIELD)	405a1a
NIL)	405a1a1
[(ATOM FIELD)	405a1b
([LAMBDA (X)	405a1b1
(COND	405a1b1a
(X (KWOTE X]	405a1b1a1
(GETP FIELD (QUOTE RECDEFAULT])	405a1b2
(T (CONS (COMPOSE4 (CAR FIELD)))	405a2
(COMPOSE4 (CDR FIELD]))	405a2a
	406
(CONS	407
[LAMBDA (CARPART CDRPART)	407a
(COND	407a1
[(OR (EQ (CAR CDRPART)	407a1a
(QUOTE LIST))	407a1a1
(NOT (CAR CDRPART)))	407a2
(CONS (QUOTE LIST)	407b
(CONS CARPART (CDR CDRPART])	407b1
(T (LIST (QUOTE CONS)	408
CARPART CDRPART]))	408a
	409

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(REPLACE	410
[LAMBDA (CARPART CDRPART)	410a
(COND	410a1
((NULL CARPART)	410a1a
CDRPART)	410a1a1
((NULL CDRPART)	410a1b
CARPART)	410a1b1
((AND (EQ (CAR CARPART)	410a1c
(QUOTE RPLACA))	410a1c1
(EQ (CAR CDRPART)	410a2
(QUOTE RPLACD))	410a2a
(EQUAL (CADR CARPART)	410b
(CADR CDRPART)))	410b1
(LIST (QUOTE RPLACD)	411
CARPART	411a
(CADDR CDRPART)))	411b
(T (LIST (QUOTE PROGN)	412
CARPART CDRPART]))	412a
)	413
(LISPXPRINT (QUOTE RECORDFNS)	413a
T)	413a1
(RPAQQ RECORDFNS (RECORD RECDO COMPOSE COMPOSE1 COMPOSE2 COMPOSE3	414
COMPOSE4 CONS REPLACE))	414a
(LISPXPRINT (QUOTE RECORDVARS)	415

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T)	415a
(RPAQQ RECORDVARS ((FNS PRINTREC PRINTREC1 RECORD)))	416
(DEFINEQ	417
	418
(PRINTREC	419
[LAMBDA (REC VAL)	419a
[COND	419a1
((NLISTP REC)	419a1a
(SETQ REC (GETP REC (QUOTE RECORD]	419a1a1
(PRINTREC1 REC VAL)	419a2
NIL])	419a3
	420
(PRINTREC1	421
[LAMBDA (REC VAL)	421a
(COND	421a1
((NULL REC)	421a1a
NIL)	421a1a1
((ATOM REC)	421a1b
(PRIN1 REC)	421a1b1
(PRIN1 " = ")	421a1b2
(PRINT VAL))	421a1b3
(T (PRINTREC1 (CAR REC)	421a1c
(CAR VAL))	421a1c1
(PRINTREC1 (CDR REC)	422

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(CDR VAL)]	422a
( RECORD	423
[ LAMBDA (NAME FIELD)	424
( PROG (GS)	424a
( SETQ GS (GENSYM))	424a1
( RECORD NAME (CONS GS FIELD))	424a1a
( PUT GS (QUOTE RECDEFAULT)	424a1b
NAME)	424a1c
( MACRO (LIST (LIST (PACK (LIST NAME (QUOTE ?))))	424a1c1
(LIST (QUOTE LAMBDA)	424a2
(QUOTE (GS))	424a2a
(LIST (QUOTE EQ)	424a2a1
(QUOTE (CAR GS))	424a2a2
(KWOTE NAME])	424a2a2a
)	424a2a2b
STOP	425
(PROGN (LISPXPRI (QUOTE "FILE CREATED ")	426
T)	426a
(LISPXPRI (QUOTE "23-OCT-72 14:04:55")	426a1
T)	427
(LISPXTERPRI T))	427a
(DEFINEQ	428
	429
	430



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(FIXMACRO	431
[LAMBDA (FN)	431a
(SELECTQ	431a1
(FNTYP FN)	431a1a
[EXPR (/PUT FN (QUOTE MACRO)	431a1b
(COPY (COND	431a1b1
((ANYTWICE FN (CADR (GETD FN))	431a1b1a
(CADDR (GETD FN)))	431a1b1a1
(GETD FN))	431a2
(T (CDR (GETD FN]	431b
[FEXPR	432
(AND (EQ (CAAR (LAST (GETD FN))))	432a
(QUOTE EVAL))	432a1
(/PUT	433
FN	433a
(QUOTE MACRO)	433b
(COPY (LIST (QUOTE L)	433c
(CONS [CONS (QUOTE LAMBDA)	433c1
(CADRLAST (CDR (GETD FN]	433c1a
(CARLIST (CADR (GETD FN))	434
(QUOTE L]	434a
[EXPR*(OR (ANYTWICE FN NIL (CADDR (GETD FN))))	435
(/PUT FN (QUOTE MACRO)	435a
(COPY (GETD FN]	435a1

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[FEXPR*(AND (EQ (CAAR (LAST (GETD FN))))	436
(QUOTE EVAL))	436a
(/PUT	437
FN	437a
(QUOTE MACRO)	437b
(COPY (LIST (CADR (GETD FN)))	437c
(CONS (QUOTE PROGN)	437c1
(CADRLAST (CDDR (GETD FN]	437c1a
(ERROR FN "FIXMACRO CAN'T"])	438
	439
(MACRO	440
[LAMBDA (L)	440a
(PROG ((MACROFLAG T))	440a1
(MAPC (DEFINE L)	440a1a
(FUNCTION (LAMBDA (X)	440a1a1
(FIXMACRO X)	440a1a1a
(COND	440a1a1b
((NOT RECORDFLG)	440a1a1b1
(FILEADD LMMMAC X])	440a1a1b1a
	441
(ANYTWICE	442
[LAMBDA (FN ARGS SEXP)	442a
(NOT (COUNTDOWN SEXP (CONS (CONS FN 1)	442a1
(MAPCAR ARGS (FUNCTION (LAMBDA (X)	442a1a

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(CONS X 2])	442a1a1
(CADRLAST	443
[LAMBDA (L)	444
(COND	444a
((NULL (CDR L))	444a1
(LIST (CADAR L)))	444a1a
(T (CONS (CAR L)	444a1a1
(CADRLAST (CDR L]))	444a1b
	444a1b1
(CARLIST	445
[LAMBDA (L DEF)	446
(CONS (LIST (QUOTE CAR)	446a
DEF)	446a1
(AND (CDR L)	446a1a
(CARLIST (CDR L)	447
(LIST (QUOTE CDR)	447a
DEF]))	447a1
)	447a1a
(LISPXPRINT (QUOTE MACROFNS)	448
T)	448a
(RPAQO MACROFNS (FIXMACRO MACRO ANYTWICE CADRLAST CARLIST))	448a1
(LISPXPRINT (QUOTE MACROVARS)	449
T)	450
	450a

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[ RPAQQ	451
MACROVARS	451a
(( P (/SET (QUOTE PRETTYMACROS)	451b
(UNION [QUOTE ((RECORD (L)	451b1
(PROP RECORD L)	451b1a
(P (RECORD L)))	451b1b
(LMMMAC (L)	452
(P (FIXMACRO (QUOTE L]	452a
PRETTYMACROS)))	453
(FNS COUNTDOWN EXPANSION)	454
(VARS RECORDFLG MACEXPAND)	455
(P (EDITE MACEXPAND (QUOTE ((COMS (##))	456
OK ]	456a
(/SET (QUOTE PRETTYMACROS)	457
(UNION [QUOTE ((RECORD (L)	457a
(PROP RECORD L)	457a1
(P (RECORD L)))	457a2
(LMMMAC (L)	458
(P (FIXMACRO (QUOTE L]	458a
PRETTYMACROS)))	459
(DEFINEQ	460
(COUNTDOWN	461
[LAMBDA (SEXP ALST)	462
	462a

several files from USC

(COND	462a1
((NULL ALST)	462a1a
NIL)	462a1a1
((LISTP SEXP)	462a1b
(COUNTDOWN (CDR SEXP)	462a1b1
(COUNTDOWN (CAR SEXP)	462a1b1a
ALST)))	462a1b1a1
(T (PROG (X)	463
(SETQ X (ASSOC SEXP ALST))	463a
(RETURN (COND	463b
((NULL X)	463b1
ALST)	463b1a
((EOP (CDR X)	463b2
1)	463b2a
NIL)	463c
(T (RPLACD X (SUB1 (CDR X)))	464
ALST])	464a
	465
(EXPANSION	466
[LAMBDA (FORM)	466a
(PROG [(MACVAL (GETP (CAR FORM)	466a1
(QUOTE MACRO)]	466a1a
(COND	467
((NOT MACVAL)	467a

several files from USC

FORM)	467a1
((MEMB (CAR MACVAL)	467b
(QUOTE [LAMBDA NLAMBDA]))	467b1
(CONS MACVAL (CDR FORM)))	468
[(AND (CAR MACVAL)	469
(ATOM (CAR MACVAL)))	469a
(EVALA (CADR MACVAL)	470
(LIST (CONS (CAR MACVAL)	470a
(CDR FORM])	470a1
(T (SUBPAIR (CAR MACVAL)	471
(CDR FORM)	471a
(CADR MACVAL])	471b
)	472
(RPAQQ RECORDFLG NIL)	472a
[RPAQQ MACEXPAND (M MACEXPAND (IF (GETP (## 1)	472b
'MACRO)	472b1
((I :(EXPANSION (## ]	473
(EDITE MACEXPAND (QUOTE ((COMS (##))	474
OK)))	474a
STOP	475
(PROGN (LISPXPRI1 (QUOTE "FILE CREATED ")	475a
T)	475a1
(LISPXPRI1 (QUOTE "23-OCT-72 14:05:13")	476
T)	476a

several files from USC

(LISPXTERPRI T))	477
(DEFINEQ	478
(COLLECT	479
[LAMBDA (FILE)	480
(UNADVISE LOAD)	480a1
(UNCOLLECT)	480a2
(GETFILE FILE)	480a3
[ADVISE (QUOTE DEFINE)	480a4
(QUOTE AFTER)	480a4a
(QUOTE (MAPC VALUE (FUNCTION (LAMBDA (FN)	480a4b
(FILEADD FNS FN])	480a4b1
(SETQ CURRENTFILE FILE)	481
(ADVISE (QUOTE LOAD)	482
(QUOTE BEFORE)	482a
(QUOTE (UNCOLLECT)))	482b
(ADVISE (QUOTE LOAD)	483
(QUOTE AFTER)	483a
(QUOTE (RECOLLECT)))	483b
FILE])	484
(FILEADD	485
[NLAMBDA (TYPE ITEM)	486
[COND	486a1

several files from USC

((ATOM TYPE)	486a1a
(SETQ TYPE (LIST TYPE ]	486a1a1
(COND	486a2
((OR (EQ (CAR (QUOTE CURRENTFILE))	486a2a
(QUOTE NOBIND))	486a2a1
(NOT CURRENTFILE))	486a3
(/SET (QUOTE EXTRAFNS)	486b
(CONS (APPEND TYPE (EVAL ITEM))	486b1
EXTRAFNS)))	486b1a
(T (PROG (TYPEL VARSLIST (CURRENTFILE (GETFILE CURRENTFILE)))	487
[SETQ VARSLIST (CAR (CADR (GETP CURRENTFILE	487a
(QUOTE FILE ]	487a1
(OR (AND [NOT (MEMBER TYPE (QUOTE ((RECORD)	488
(LMMMAC ]	488a
(NOT (CDR TYPE))	489
(SETQ TYPEL (ASSOC (CAR TYPE)	490
VARSLIST)))	490a
(PROG1 (SETQ TYPEL TYPE)	491
(/NCONC1 VARSLIST TYPEL)))	491a
(/NCONC1 TYPEL (EVAL ITEM))	492
(/NCONC1 (GETP CURRENTFILE (QUOTE FILE))	493
(EVAL ITEM ])	493a
	494
(UNCOLLECT	495



several files from USC

[LAMBDA NIL	495a
(UNADVISE DEFINE)	495a1
(PROG1 (/SET (QUOTE LASTCOLLECT)	495a2
CURRENTFILE)	495a2a
(/SET (QUOTE CURRENTFILE)	496
NIL])	496a
)	497
(LISPXPRT (QUOTE COLLECTFNS)	497a
T)	497a1
(RPAQQ COLLECTFNS (COLLECT FILEADD UNCOLLECT))	498
(LISPXPRT (QUOTE COLLECTVARS)	499
T)	499a
[RPAQQ COLLECTVARS	500
((FNS RECOLLECT RECALL GSET PUTPROP LF LC QUIT GETFILE	
READDIR)	500a
(VARS EXTRAFNS (CURRENTFILE NIL)	500a1
(MACROFLAG NIL))	500a1a
(P (SETQ YESFNS USERWORDS])	501
(DEFINEQ	502
	503
(RECOLLECT	504
[LAMBDA NIL	504a
(READVISE DEFINE)	504a1
(/SET (QUOTE CURRENTFILE)	504a2
LASTCOLLECT])	504a2a

several files from USC

(RECALL	506
[LAMBDA (FN)	506a
(RETEVAL FN (CONS FN (VARIABLES FN]))	506a1
(GSET	507
	508
[LAMBDA (X Y)	508a
(FILEADD VARS X)	508a1
(/SET X Y])	508a2
(PUTPROP	509
	510
[LAMBDA (NAM IND VAL)	510a
(APPLY (QUOTE FILEADD)	510a1
(LIST (LIST (QUOTE PROP)	510a1a
IND)	510a1a1
(QUOTE NAM)))	510b
(PUT NAM IND VAL])	511
(LF	512
	513
[LAMBDA (FILES)	513a
(MAPC FILES (FUNCTION LOAD])	513a1
(LC	514
	515
[LAMBDA (FILES)	515a
(OR FILES (SETQ FILES (READDIR)))	515a1

several files from USC

(MAPC FILES (FUNCTION (LAMBDA (FILE)	515a2
(LOAD (PACK (LIST FILE ".COM")))	515a2a
(QUIT	516
[LAMBDA NIL	517
(MAKEFILES *(FAST RC))	517a
(LOGOUT])	517a1
	517a2
(GETFILE	518
[LAMBDA (FILE)	519
[COND	519a
(MACROFLAG (SETQ FILE (PACK (LIST FILE "MACROS"))	519a1
[COND	519a1a
((NOT (MEMBER FILE FILELST))	519a2
(COND	519a2a
((INFILEP FILE)	519a2a1
(LOAD FILE))	519a2a1a
(T [/PUT FILE (QUOTE FILE)	519a2a1b
(LIST (/RPLACA (PACK (LIST FILE "FNS")))	519a2a1b1
(/RPLACA (PACK (LIST FILE "VARS"))	519a2a1b1a
(COPY (QUOTE ((FNS)	519a2a1b1a1
(VARS])	519a2a1b1a1a
(SAVESET (QUOTE FILELST)	520
(CONS FILE FILELST]	520a

several files from USC

FILE]]	521
(READDIR	522
	523
[LAMBDA NIL	523a
(CLEARBUF T T)	523a1
(LINBUF NIL)	523a2
(SYSBUF NIL)	523a3
(PROG (FIL RESLT HELPCLOCK (CNT 20))	523a4
(TENEX "DIR *.COM ,	523a4a
OU D.D;0	524
	525
	526
" )	527
(INFILE (QUOTE D.D))	527a
(READ (QUOTE D.D))	527b
LP [SETQ FIL (NLSETQ (READ (QUOTE D.D]	528
(COND	528a
((NOT FIL)	528a1
(RETURN RESLT)))	528a1a
(SETQ FIL (NAMEFIELD (CAR FIL)))	528b
(PRIN1 FIL)	528c
(PRIN1 " ? ")	528d
WT (COND	529
((MINUSP (SETQ CNT (SUB1 CNT))))	529a

several files from USC

(PRIN1 "...Y")	529a1
(GO YEP))	529a2
((NOT (READP T))	529b
(DISMISS 500)	529b1
(GO WT))	529b2
((NOT (EQ (PEEKC T)	529c
(QUOTE Y)))	529c1
(GO NOPE)))	530
YEP (SETQ RESLT (CONS FIL RESLT))	531
NOPE(CLEARBUF T T)	532
(TERPRI)	532a
(SETQ CNT 10)	532b
(GO LP])	532c
)	533
(RPAQQ EXTRAFNS ((LMMMAC . EVENP)	533a
(FNS . EVENP)	533a1
(LMMMAC . EVENP)	533a2
(FNS . EVENP)	533a3
(LMMMAC . EVENP)	533a4
(FNS . EVENP)	533a5
(LMMMAC . EVENP)	533a6
(LMMMAC . EVENP)))	533a7
(RPAQ CURRENTFILE NIL)	534
(RPAQ MACROFLAG NIL)	535

LMM 1-NOV-72 17:12 12486

several files from USC

(SETQ YESFNS USERWORDS)

536

STOP

537

538

LMM 1-NOV-72 17:12 12486

several files from USC

(J12486) 1-NOV-72 17:12; Title: Author(s): Masinter, Larry M./LMM;  
Distribution: Masinter, Larry M./LMM; Sub-Collections: NIC; Clerk: LMM;  
Origin: <SU-HP>LIST.NLS;2, 23-OCT-72 14:33 LMM ;

Reflection

Hi, Dirk. I've tried to reach you a number of times in the last two days but you always are buried in the midst of DNLS. Or else not logged in. It has been a weird week since the demise of our favorite conference--some of the weirdness resulting from a few days sojourn chez mes parents, and some the after-effects of the conference.

1

Alot of unexpected things happened at the conference, as we well know. I would like to be able to talk about them honestly with you, as well as getting to a new level of relationship in general. What hung us up was breaking through the intellectual cover.

2

I can only keep up with the intellectual chitchat for a limited amount of time. Then I get bored. (Too many years of academia, I suppose.) What interests me most is relating to people at a deep level, and I think there is a lot of potential for a very interesting relationship with you. Are you still game?

2a

I realize that the journal is not the best means of exploring new minds and souls. Besides the lack of privacy (why was there no protection mechanism built into the journal? To answer that myself, because it wouldn't be a journal then.), the complicated technology of computer networks gets in the way of communication with my inner self and anyone elses inner self.

2b

The sensitive electromagnetic fields of the human being are clobbered by the gross electronics of the network. Of course, anything less than close physical contact is unsatisfactory (unless you have attained great spiritual advancement), but handheld pen and paper pick up and communicate more than a tty.

2b1

So what do you suggest as our means of communication? Letters marked personal sent to you at your office? Let me know how you feel about the whole thing, now that you have some perspective on it.

2c



NJN 1-NOV-72 14:28 12487

Reflection

(J12487) 1-NOV-72 14:28; Title: Author(s): Neigus, Nancy J./NJN;  
Distribution: Van Nouhuys, Dirk H./DVN; Sub-Collections: NIC; Clerk:  
NJN;

Technology blocks real communication

Talking to you on the phone yesterday was a little difficult for several reasons, although I was glad you called and even was anticipating your call most of the day.

1

First of all I was in office mode. I had alot of things to get done yesterday , and was feeling caught up in them. Also I hesitate to let my mind wander too much for fear it won't come back. I have had much experience in the past with letting my moods overtake my work; several theses have fallen into the background (and later into nothing) because of that. So I hadn't really called up your presence by the time you called, and thus felt somewhat distant from you.

1a

Telephones are awful contraptions. There is so much technology between you and the person on the other side that emotions and deep feelings get scared off. I have always felt that people on the phone are but a thin surface image of themselves. Letters are preferable, in that at least one has the time to think one's thoughts and to let one's feelings and personality through.

1b

Writing letters through the technology of the network has some of the same inhibiting effect.

1b1

Since you are not much of a talker, talking on the phone seems a strange thing to do. (How are you at letters?) What was so wonderful in Washington was simply being together....And what is so sad now is simply being apart. Maybe in the future picture phones will handle this problem and people can just sit and look at each other over the wires.

1c

I don't know any answers. For the time being, I will write you personal letters in the evening, at home, with my own little hand. And still hope that we can be together sometime soon.

2

P.S. We had a division meeting yesterday afternoon at which I learned many interesting things about BBN and its future with the network. I leave you with that tantalizing thought.

3

NJN 1-NOV-72 8:25 12488

Technology blocks real communication

(J12488) 1-NOV-72 8:25; Title: Author(s): Neigus, Nancy J./NJN;  
Distribution: Postel, Jonathan B./JBP; Sub-Collections: NIC; Clerk: NJN;

Here's your chance to help design a DPCS

I intend to spend much of my time for the next few weeks working on DPCS plans and designs -- if you have any ideas, suggestions, wish-lists, or the like which you would like to have considered, please send them to me via the Journal. (DPCS stands for "Documentation Production and Control System" -- a term which may get defined during this pass at planning -- and encompasses such areas as Output Processor, Catalog Production, Functional Document handling, etc.) Thanks -- Walt

1

Here's your chance to help design a DPCS

(J12489) 31-OCT-72 15:09; Title: Author(s): Bass, Walt/WLB;  
Distribution: Hoffman, Carol B., Lee, Susan R., Michael, Elizabeth K.,  
Dornbush, Charles F., ARC, Guest O., Feinler, Elizabeth J. (Jake),  
Handbook, Augmentation Research, Kelley, Kirk E., Meyer, N. Dean, Byrd,  
Kay F., Prather, Ralph, White, James E. (Jim), Vallee, Jacques F., Kaye,  
Diane S., Rech, Paul, Kudlick, Michael D., Ferguson, Ferg R., Lane,  
Linda L., Auerbach, Marilyn F., Bass, Walt, Engelbart, Douglas C.,  
Hardeman, Beauregard A., Hardy, Martin E., Hopper, J. D., Irby, Charles  
H., Jernigan, Mil E., Lehtman, Harvey G., North, Jeanne B., Norton,  
James C., Page, Cindy, Paxton, William H., Peters, Jeffrey C., Ratliff,  
Jake, Row, Barbara E., Riet, Ed K. Van De, Van Nouhuys, Dirk H., Victor,  
Kenneth E. (Ken), Wallace, Donald C. (Smokey), Watson, Richard W.,  
Andrews, Don I./sri-arc ; Sub-Collections: SRI-ARC; Clerk: WLB;

Reply to HGL (12327,) re my (12127,) about Jump Link

Harvey: I just read your (12327,) and I think that you misread my statement (12127,5b:gw). It wasn't that I was left looking at only one line that I was complaining about; it was that the statement that I was left looking at was not the statement with the link in it (that I had bugged), but rather that it was already positioned at the top of the screen. My argument in that memo was that to be consistent (and useful to me), use of that link should have taken me to the statement in which the link was embedded, and there given me a view according to the prescribed VSPECS. I hope that this is all a matter of academic issue now anyway -- assuming that JL does what I wanted. Regards, Doug.

1

DCE 2-NOV-72 17:53 12490

Reply to HGL (12327,) re my (12127,) about Jump Link

(J12490) 2-NOV-72 17:53; Title: Author(s): Engelbart, Douglas  
C./DCE; Distribution: Lehtman, Harvey G., Irby, Charles H., Auerbach,  
Marilyn F./HGL CHI MFA; Sub-Collections: SRI-ARC; Clerk: DCE;

REF 3-NOV-72 11:20

Comment confirmation

No doubt about it.

1



REF 3-NOV-72 11:20

Comment confirmation

(J12492) 3-NOV-72 11:20; Title: Author(s): Fikes, Richard E./REF;  
Distribution: Fikes, Richard E., Coles, L. Stephen/ref lsc ;  
Sub-Collections: NIC; Clerk: REF;

Contact Report: Office of Telecommunications, 26 OCT 72

Contact Details	1
Company Name: Department of Commerce	2
Date of Visit: 26 October 1972	3
Division: Office of Telecommunications	4
Place of Visit: Washington, D.C.	5
Address: 1325 G Street N. W.	6
Personnel Contacted:	7
John Richardson, Director	7a
Paul Polishuk, Deputy Director	7b
Robert M. Lowe, Head of Program Development and Evaluation Division	7c
Terry McCormick, Policy Support Division	7d
William Nugent, Consultant	7e
SRI Reporter: David R. Brown	8
Other SRI: Douglas Engelbart, George Hagn	9
Remarks:	10
The persons visited were already familiar with SRI's ARC and would like to work with ARC along the lines proposed by Engelbart. During the same day, Polishuk and Lowe visited the Special Project at the ICCC where they saw a demonstration of NLS. Lowe plans to visit SRI during the week of November 6 for further development of an OT-ARC relationship.	10a
Report Distribution: Doug Engelbart, Dick Watson, Jim Norton, Charles Irby, George Hagn, Bob Daly, Fran Greehan, Ernie Moore, Bart Cox, Jack Bialik.	11

DRB 3-NOV-72 13:07 12493

Contact Report: Office of Telecommunications, 26 OCT 72

(J12493) 3-NOV-72 13:07; . Title: Author(s): Brown, David R./DRB;  
Distribution: Engelhart, Douglas C., Watson, Richard W., Norton, James  
C., Irby, Charles H., Cox, Bonnar/DCE RWW JCN CHI HC; Sub-Collections:  
SRI; Clerk: BER;  
Origin: <ROW>OTVISIT.NLS;2, 3-NOV-72 13:02 BER ;

DGR 3-NOV-72 14:21 12494

ha

this is a test

1

DGR 3-NOV-72 14:21 12494

ha

(J12494) 3-NOV-72 14:21; Title: Author(s): Ricart, D. G./DGR;  
Distribution: Laube, Sheldon J., Ricart, D. G., Page, William J./SJL DGR  
WJP; Sub-Collections: NIC; Clerk: DGR;

DVN 3-NOV-72 8:47 12495

Switching and Ident from one NET User to Another (reply to  
(,12480,)

The person who changes directories is Smokey Wallace (DCW). I will give your message to him. It is not clear to me how easy or hard it is to do or how long it will take. I will get back in touch.

1

DVN 3-NOV-72 8:47 12495

Switching and Ident from one NET User to Another (reply to  
(,12480,)

(J12495) 3-NOV-72 8:47; Title: Author(s): Van Nouhuys, Dirk H./DVN;  
Distribution: Crocker, David H./dhc ; Sub-Collections: SRI-ARC; Clerk:  
DVN;

How to Switch an Ident's Allegiance from one Net User or Another

Disregard the previous message saying it was Smokey's job. In fact he has nothing to do with it. You need to :

1

Output all the files in question to the new directory.

1a

Ask Barbara Row (BER) to change your affiliation in our ident file.

1b



DVN 3-NOV-72 9:01 12496

How to Switch an Ident's Allegiance from one Net User or Another

(J12496) 3-NOV-72 9:01; Title: Author(s): Van Nouhuys, Dirk H./DVN;  
Distribution: Crocker, David H./dhc ; Sub-Collections: SRI-ARC; Clerk:  
DVN;

letters

personal letters suit me fine address = Jon Postel / P.O. Box 368 / 308 Westwood Plaza / Los Angeles, California 90024. I also feel strange about telephones and computer networks for essentially emotional communications, and i do not expect picturephones to help at all, in fact i think they will be worse. please write and i will answer. --jon.

1

JBP 3-NOV-72 18:15 12497

letters

(J12497) 3-NOV-72 18:15; Title: Author(s): Postel, Jonathan B./JBP;  
Distribution: Neigus, Nancy J./NJN; Sub-Collections: NIC; Clerk: JBP;

MFA 3-NOV-72 10:07 12498

PARSLEY MEETING -- Monday, Nov.7, 2:00

PARSLEY will meet Monday at 2:00 (Nov.7) for the purpose of designing a program of POD activities during Thanksgiving week. Please let me know if this time/date is inconvenient.

1

MFA 3-NOV-72 10:07 12498

PARSLEY MEETING -- Monday, Nov.7, 2:00

(J12498) 3-NOV-72 10:07; Title: Author(s): Auerbach, Marilyn F./MFA  
; Distribution: Van Nouhuys, Dirk H., Hopper, J. D., Kelley, Kirk E.,  
Jernigan, Mil E., Victor, Kenneth E. (Ken), Wallace, Donald C. (Smokey),  
Rech, Paul, Lane, Linda L., Lehtman, Harvey G./dvn jdh kirk mej kev  
dcw pr lll hgl ; Sub-Collections: SRI-ARC; Clerk: MFA ;

MFA 3-NOV-72 8:57 12499

PARSLEY MEETING -- Monday, Nov.7, 2:00

PARSLEY will meet Monday at 3:00 for the purpose of designing a program of POD activities during Thanksgiving week. Please let me know if this time/date is inconvenient.

1

MFA 3-NOV-72 8:57 12499

PARSLEY MEETING -- Monday, Nov.7, 2:00

(J12499) 3-NOV-72 8:57; Title: Author(s): Auerbach, Marilyn F./MFA  
; Sub-Collections: SRI-ARC; Clerk: MFA ;

MFA 3-NOV-72 8:59 12500

POD ACTIVITIES FOR THANKSGIVING WEEK ???

The (lack of) machine time scheduling for Thanksgiving week affords us the opportunity for focusing on POD type activity at ARC. Parsley will meet early next week (Monday, 2:00) to generate a proposal for activities for the three days, Nov.20-23. We would appreciate any suggestions you might have for those activities before we meet. Please comment to me, Dirk, or Dave. Thanks.

1



## POD ACTIVITIES FOR THANKSGIVING WEEK ???

(J12500) 3-NOV-72 8:59; Title: Author(s): Auerbach, Marilyn F./MFA ; Distribution: Hoffman, Carol B., Lee, Susan R., Michael, Elizabeth K., Dornbush, Charles F., ARC, Guest O., Feinler, Elizabeth J. (Jake), Handbook, Augmentation Research, Kelley, Kirk E., Meyer, N. Dean, Byrd, Kay F., Prather, Ralph, White, James E. (Jim), Vallee, Jacques F., Kaye, Diane S., Rech, Paul, Kudlick, Michael D., Ferguson, Ferg R., Lane, Linda L., Auerbach, Marilyn F., Bass, Walt, Engelbart, Douglas C., Hardeman, Beauregard A., Hardy, Martin E., Hopper, J. D., Irby, Charles H., Jernigan, Mil E., Lehtman, Harvey G., North, Jeanne B., Norton, James C., Page, Cindy, Paxton, William H., Peters, Jeffrey C., Ratliff, Jake, Row, Barbara E., Riet, Ed K. Van De, Van Nouhuys, Dirk H., Victor, Kenneth E. (Ken), Wallace, Donald C. (Smokey), Watson, Richard W., Andrews, Don I./sri-arc ; Sub-Collections: SRI-ARC; Clerk: MFA ;

Vint...Do you happen to know if any of the ICCC accounts are going to remain active, and if so, which ones? If you don't know is there anyone who does, short of contacting each site individually? I'd appreciate any information you have. Thanks very much....Nancy Neigus

1

NJN 3-NOV-72 13:04 12501

(J12501) 3-NOV-72 13:04; Title: Author(s): Neigus, Nancy J./NJN;  
Distribution: Cerf, Dr. Vinton G./VGC; Sub-Collections: NIC; Clerk: NJN;

Communication is strenuous

In the best tradition of the ARPA Network, you can't send me a message at BBN-NET because that is not a host on the net. My Neigus account is on BBN-TENEX and they do recognize me there. BBN-NET is my nic Tenex user name, and is necessary to distinguish me as a division 6 Imp group person at BBN rather than a division 5 Tenex group person.

1

You could send me a message via BBN-NET [at SRI-ARC] but it wouldn't be as private, considering that Alex or Dave or Joel or others might read it.

1a

What are you trying to imply by "In the best tradition of our acquaintance"? I guess we have had a series of missed communications; we'll obviously have to work harder at it.

2

What happened to the nic yesterday (Thursday)? It was dead to the net all day long. I got volunteered to do another net demo at the NEREM conference in Boston yesterday, and the nic, as well as others of my favorite systems were all down. It made it very difficult to give a convincing demo. Stupid people at the conference, too. (Oops, there's my elitism coming out again.)

3

The nic was also very flakey this morning. It takes about a minute for each statement to be executed or word to be typed out. Is your machine about to die from exhaustion and overwork?

3a

NJN 3-NOV-72 7:25 12502

Communication is strenuous

(J12502) 3-NOV-72 7:25; Title: Author(s): Neigus, Nancy J./NJN;  
Distribution: Van Nouhuys, Dirk H./DVN; Sub-Collections: NIC; Clerk:  
NJN;

Documentation Request

Hi, Cindy. I have a request for some documentation, specifically whatever you may have on DNLS. We (that is, Bob Bressler and myself) are pushing to get a division 6 version of DNLS running at BBN on our Imlac, and we need info. 1

I don't know if this information is included in the complete set of documentation that I am supposed to be receiving as station agent, which, by the way, I have not yet received. If it is, then please send one extra copy; if not, then please send two to me at BBN. 2

Or do you prefer that I have the extra copy made here? 2a

I would appreciate getting this asap, although I realize you are very busy. 3

If I have made this request to the wrong person, could you please pass it on to the correct person, and let me know who that is so I will know for the future. Thank you very much, Nancy Neigus. 4

NJN 3-NOV-72 8:53 12503

Documentation Request

(J12503) 3-NOV-72 8:53; Title: Author(s): Neigus, Nancy J./NJN;  
Distribution: Page, Cindy/CXP; Sub-Collections: NIC; Clerk: NJN;

DLS 4-NOV-72 5:55 12504

Changes to RADC-TR-72-232

I see no problems in making the changes asked for in (,12436,).  
I'll rely on you to make up a new DD1473 OK?

1



DLS 4-NOV-72 5:55 12504

Changes to RADC-TR-72-232

(J12504) 4-NOV-72 5:55; Title: Author(s): Stone, Duane L./DLS;  
Distribution: Van Nouhuys, Dirk H., Jernigan, Mil E./DVN MEJ;  
Sub-Collections: RADC; Clerk: DLS;

Lost (,10818,) ??

Dirk, can you get journal #10818 back for me? I can't seem to retrieve it using the interrogate command. Maybe I don't understand how it works, but have made it work a number of times on non-journal items. The title is AHI GROUP INPUT TO TPO-14. Thanks.

1

DLS 4-NOV-72 7:56 12505

Lost (,10818,) ??

(J12505) 4-NOV-72 7:56; Title: Author(s): Stone, Duane L./DLS;  
Distribution: Van Nouhuys, Dirk H./DVN; Sub-Collections: RADC; Clerk:  
DLS;

letters

i dont know if my other message got through or not so this is to confirm receipt of your message suggesting use of private letters for communications, i approve and will cooperate. address = Jon Postel / po box 368 / 308 westwood plaza / la ca 90024.

1

JBP 4-NOV-72 16:58 12506

Letters

(J12506) 4-NOV-72 16:58; Title: Author(s): Postel, Jonathan B./JBP;  
Distribution: Neigus, Nancy J./NJN; Sub-Collections: NIC; Clerk: JBP;

SJL 5-NOV-72 11:23 12507

ttt

hello glenn

1

SJL 5-NOV-72 11:23 12507

ttt

(J12507) 5-NOV-72 11:23; Title: Author(s): Laube, Sheldon J./SJL;  
Distribution: Ricart, D. Glenn, Laube, Sheldon J./DGR SJL;  
Sub-Collections: NIC; Clerk: SJL;

SJL 5-NOV-72 11:42 12508

journal test2

this is test2

1



SJL 5-NOV-72 11:42 12508

journal test2

(J12508) 5-NOV-72 11:42; Title: Author(s): Laube, Sheldon J./SJL;  
Distribution: Laube, Sheldon J., Ricart, D. Glenn, Jones, William P./SJL  
DGR WPJ; Sub-Collections: NIC; Clerk: SJL;

## NOTE

I WOULD LIKE TO ADD REIN TURN OF THE RAND CORPORATION TO THE SURG GROUP BUT I CAN FIND NO DETAILS ABOUT HOW TO ADD AN INDIVIDUAL TO A GROUP IN THE NIC USER'S GUIDE. PERHAPS I AM JUST DENSE, BUT IT SEEMS THE NIC USER'S GUIDE TELLS ONE HOW TO CREATE BUT NOT MODIFY A GROUP. I REPEAT MY PREVIOUS REQUEST TO HAVE SENT A SAMPLE TYPESCRIPT OF HOW TO ADD A USER TO SURG. ALSO WOULD YOU PLEASE SEND ME A COPY OF THE DRAFT OF THE DNLS MANUAL SINCE WE HAVE THE IMLAC PROGRAM WHICH WILL ENABLE US TO US DNLS THROUGH TENEX FROM BBN. I WOULD ALSO LIKE A COUPLE OF COPIES OF THE CARD WHICH CONDENSES THE INFORMATION ABOUT THE VIEWSPECS AND DNLS COMMANDS WHICH LPDEUTSCH CLAIMS EXISTS. THANKS IN ADVANCE. TED STROLLO

1

TRS 4-NOV-72 10:55 12509

NOTE

(J12509) 4-NOV-72 10:55; Title: Author(s): Strollo, Ted R./TRS;  
Distribution: North, Jeanne B., Page, Cindy/JBN CXP; Sub-Collections:  
NIC; Clerk: TRS;

WJP 5-NOV-72 11:27 12510

test

hello shel

1

WJP 5-NOV-72 11:27 12510

test

(J12510) 5-NOV-72 11:27; Title: Author(s): Page, William J./WJP;  
Distribution: Laube, Sheldon J., Page, William J., Ricart, D. Glenn/SJL  
WJP DGR; Sub-Collections: NIC; Clerk: WJP;

Transmittal to Ed J. Collins (NYU)

Transmittal to Station Agent - Ed J. Collins (NYU)  
12511

NIC

-----  
6-NOV-71  
Susan Lee (SRI-ARC)  
Network Information Center

1

Enclosed is your Station Collection which includes the following  
Functional Documents:

2

3

NIC 5145 Current Catalog of the NIC Collection  
1-AUG-72

3a

5150 Current Directory of Network Participants  
16-OCT-72

3b

6740 Network Resource Notebook  
28-AUG-72

3c

7104 Current Network Protocols  
6-JUN-72

3d

7590 Network Information Center User Guide  
19-JUL-72

3e

Also enclosed are a number of background documents (see list  
below).

4

Approximately every other week you will receive additions to your  
collection. Along with the new documents will be a numbered  
transmittal letter which lists what is being sent, and also  
indicates what has recently been sent to your Site's Technical  
Liaison. These transmittal letters should be filed in the  
Transmittal Letter section of your Current Catalog (NIC 5145).

5

We will be glad to supply copies of particular documents  
indicated by a back arrow in the Catalog Listings, and will loan  
or direct you to sources of other documents in the Listings.

6

c: S. Crocker (ARPA)

7

encl: 8480  
4564

Transmittal to Ed J. Collins (NYU)

4565  
4566  
4567  
4568  
7542  
7750  
10507  
10509  
10510  
11924

8

Transmittal to Yeshiah S. Feinroth

ARPA Network Information Center  
Stanford Research Institute  
Menlo Park, California 94025

NIC 12512  
6-NOV-72

1

Yeshiah S. Feinroth  
Courant Institute of Mathematical Sciences  
251 Mercer Street  
New York, New York 10012

2

Dear Mr. Feinroth:

3

We have received notice that your office is now an Affiliate of the ARPA Network. As such, you will be receiving documents on distribution from the Network Information Center (NIC).

4

We are sending you a core collection of existing documents, including the following Functional Documents for which we will provide updates:

5

NIC 5145	Current Catalog of the NIC Collection	1-AUG-72	5a
5150	Current Directory of Network Participants	16-OCT-72	5b
6740	Network Resource Notebook	28-AUG-72	5c
7104	Current Network Protocols	6-JUN-72	5d
7590	Network Information Center User Guide	19-JUL-72	5e

We are also sending you a number of documents which you may need as background (see list below).

6

We will be glad to supply copies of particular documents indicated by a back arrow in the Catalog Listings, and will loan or direct you to sources of other documents in the Listings.

7

Susan Lee, our Station Agent, accomplishes NIC distribution, and has now put you on distribution for all documents sent to Site Liaisons.

8

Jeanne North,  
Information and Station  
Agent Coordinator

9

c: S. Crocker (ARPA)

10

encl: 4564 7542  
4565 7750



JBN 1-DEC-72 8:33 12512

Transmittal to Yeshiah S. Feinroth

4566	10507
4567	10509
4568	10510
11924	

11

Transmittal to Harry Colman (ILLIAC)

Transmittal to Station Agent - Harry Colman (ILLIAC)  
12513

NIC

-----  
6-NOV-72  
Susan Lee (SRI-ARC)  
Station Network Information Center

1

Enclosed is your Station Collection which includes the following  
Functional Documents:

2

3

NIC 5145 Current Catalog of the NIC Collection  
1-AUG-72

3a

5150 Current Directory of Network Participants  
16-OCT-72

3b

6740 Network Resource Notebook  
28-AUG-72

3c

7104 Current Network Protocols  
6-JUN-72

3d

7590 Network Information Center User Guide  
19-JUL-72

3e

Also enclosed are a number of background documents (see list  
below).

4

Approximately every other week you will receive additions to your  
collection. Along with the new documents will be a numbered  
transmittal letter which lists what is being sent, and also  
indicates what has recently been sent to your Site's Technical  
Liaison. These transmittal letters should be filed in the  
Transmittal Letter section of your Current Catalog (NIC 5145).

5

We will be glad to supply copies of particular documents  
indicated by a back arrow in the Catalog Listings, and will loan  
or direct you to sources of other documents in the Listings.

6

c: S. Crocker (ARPA)

7

encl: 8480  
4564

Transmittal to Harry Colman (ILLIAC)

4565  
4566  
4567  
4568  
7542  
7750  
10507  
10509  
10510  
11924

8

Transmittal to Shirley Watkins (NBS)

Transmittal to Station Agent - Shirley Watkins (NBS)  
12515

NIC

-----  
7-NOV-72  
Susan Lee (SRI-ARC)  
Station Agent  
Network Information Center

1

At your request I am enclosing one copy of:

2  
3

NIC 11863 Scenarios for using the ARPANET at the  
International Conference on Computer Communication

3a  
3b

I'm sorry that I can't send a larger quantity of these but our  
supply is very low at present. We may be able to send  
more at a later date.

4

Transmittal to Schuyler Stevenson - DOCB

Transmittal to Schuyler Stevenson - DOCB

NIC 12516  
7-NOV-72

-----  
Susan Lee (SRI-ARC)  
Station Agent

1

At your request I am enclosing a copy of the following document:

2  
3

NIC 11863 Scenarios for using the ARPANET at the  
International Conference on Computer Communication.

3a  
3b

Transmittal to Margaret Iwamoto (ALOHA)

Transmittal to Station Agent - Margaret Iwamoto (ALOHA)  
12517

---

NIC

7-NOV-72

Susan Lee (SRI-ARC)

Station Agent

Network Information Center

1

At your request I am enclosing a copy of the following document:

2

3

NIC 11863 Scenarios for using the ARPANET at the  
International Conference on Computer Communication.

3a

3b

Transmittal to Marie Morello

ARPA Network Information Center  
Stanford Research Institute  
Menlo Park, California 94025

NIC 12518  
7-NOV-72

1

TRANSMITTAL TO: Marie Morello  
Key Data Corp.  
108 Water Watertown, Mass. 02172

2

3

FROM: Susan Lee (SRI-ARC)  
Station Agent

4

At the request of Pam Cutler (ARPA-TIP), I am enclosing aone copy  
of:

5

NIC 7590 Network Information Center User Guide 19-JUL-72

5a

encl: 7590

6

International Network Working Group Mailing List

ARPA Network Information Center  
 Stanford Research Institute  
 Menlo Park, California 94025

INWG 3  
 7-NOV-72

1  
 International Packet Network Working Group:  
 International Network Working Group Mailing List  
 Monday, 6 November 1972

Derek L. A. Barber 3

National Physical Laboratory  
 Teddington, Middlesex  
 United Kingdom  
 01-977-3222 x4050  
 INWG group 2

3a

W. B. Barker 4

Bolt, Beranek, and Newman  
 50 Moulton Street  
 Cambridge, Mass. 02138  
 (617) 491-1850 x441  
 INWG Group 1

4a

Rex C. Belton 5

British Post Office  
 Telecommunications Headquarters  
 TD 14.3  
 6 Lambeth Road  
 London SE1 6HU  
 United Kingdom  
 01-261-4502  
 INWG Group 1

5a

Vint Cerf 6

Electronics Research Laboratory  
 Stanford University  
 Stanford, California 94305  
 (415) 321-3300 x370  
 INWG Chairman, INWG Group 2 Chairman pro tem

6a

William W. Clipsham 7



## International Network Working Group Mailing List

Bell-Northern Research P.O. Box 3511 Station C Ottawa, Ontario Canada k1Y 4H7 (613) 828-2761 INWG Group 2	7a
<b>Steve Crocker</b>	8
ARPA/IPT 1400 Wilson Boulevard Arlington, Virginia 22209 (202) 694-5037 or 694-5922 INWG Group 2	8a
<b>Donald W. Davies</b>	9
National Physical Laboratory Teddington, Middlesex United Kingdom 01-977-3222 x3035 INWG Group 1 Chairman	9a
<b>Remi Despres</b>	10
CNET 38 Rue du Gen. LeClerc 92131 Issy Les Moulineaux France (1) 645-4997 (99) 30 8827 INWG Group 1	10a
<b>V. Detwiler</b>	11
University of British Columbia Vancouver, British Columbia Canada INWG Group not specified	11a
<b>Frank Heart</b>	12
Bolt, Beranek, and Newman 50 Moulton Street Cambridge, Mass. 02138 (617) 491-1850 INWG Group 1	12a

## International Network Working Group Mailing List

Yngvar Lundh	13
NDRE 2007 Kjeller Norway (02) 71 2660 INWG Group not specified	13a
P. R. Martin	14
Electricite de France 24 Rue Guerard 92260 Fontenay France INWG Group 2	14a
Alexander McKenzie	15
Bolt, Beranek, and Newman 50 Moulton Street Cambridge, Massachusetts 02138 (617) 491-1850 INWG Group 2	15a
Bob Metcalfe	16
Xerox PARC 3180 Porter Drive Palo Alto, California (415) 493-1600 x575 INWG Group not specified	16a
Michel Elie	17
C.I.I 68 Route de Versailles 78 Le Chesnay France INWG Group 2	17a
Louis Pouzin	18
Reseau Cyclades 78150 Rocquencourt France 954-9020 x304 INWG Group 2	18a

## International Network Working Group Mailing List

<b>Ottfried Rimpl</b>	19
<p>Bell-Northern Research  P.O. Box 3511  Station C  Ottawa, Ontario  Canada K1Y 4H7  (613) 828-2761  INWG Group 1</p>	
	19a
<b>Larry Roberts</b>	20
<p>ARPA/IPT  1400 Wilson Boulevard  Arlington, Virginia 22209  (202) 694-5921 or 694-5922  INWG Group 1</p>	
	20a
<b>Kjell Samuelson</b>	21
<p>Information Processing-ADP  Stockholm University and  Royal Institute of Technology  10405 Stockholm 50  Sweden  INWG Group 2</p>	
	21a
<b>Keith Sandum</b>	22
<p>3532 Boelter Hall  Computer Science Department  University of California  Los Angeles, California 90024  (213) 825-2971  INWG Group 2</p>	
	22a
<b>Brian Sexton</b>	23
<p>British Post Office  Telecommunications Headquarters  TD9.6.2 (Software Eng.)  2-12 Gresham Street  London EC27 VAG  United Kingdom  01-432-4502  INWG Group 2</p>	
	23a
<b>Jeremy Tucker</b>	24

International Network Working Group Mailing List

Logica Ltd.  
31-36 Folly Street  
London W1  
01-637-1511  
INWG Group not specified

24a

Takeshi Utsumi

25

Assistant Dept. Manager  
Mitsubishi Research Institute  
1-6-1, Ohte-machi  
Chiyoda-ku, Tokyo, 100  
Japan  
(03) 214-5531 x14  
INWG Group not specified

25a

Barry Wessler

26

Computer Science Dept.  
University of Utah  
Salt Lake City, Utah 84112  
(801) 581-8224  
INWG Group 2

26a

VGC 27-NOV-72 11:40 12519

International Network Working Group Mailing List

(J12519) 27-NOV-72 11:40; Title: Author(s): Cerf, Dr. Vinton G./VGC;  
Distribution: North, Jeanne B./NICSTA; Sub-Collections: NIC NICSTA;  
Clerk: LLL;  
Origin: <LANE>INWG3.NLS;3, 27-NOV-72 11:37 LLL ;

Transmittal to Shirley Watkins (NBS)

Transmittal to Station Agent - Shirley Watkins (NBS)  
12521

NIC

-----  
7-NOV-72

Susan Lee (SRI-ARC)

Station Agent

Network Information Center

1

At your request I am enclosing the following documents:

2

3

NIC 8246 Host/Host Protocol for the ARPA Network; January  
1972 NOTE: This document is a revision of NIC 5763

3a

3b

NIC 8165 NETRJT -- Remote Job Service Protocol for TIPS;  
December 1971

3c

NIC 10603 NWG/RFC #361; 5 July 1972

3d

Transmittal to Linda M. Connelly (RAND)

Transmittal to Station Agent - Linda M. Connelly (RAND) NIC  
12522

---

8-NOV-72  
Susan Lee (SRI-ARC)  
Station Agent  
Network Information Center

1

At your request I am enclosing the following document:

2  
3

NIC 5480 An NCP for the ARPA Network 21-DEC-70

3a  
3b

Transmittal to Saul Bergmann

ARPA Network Information Center  
Stanford Research Institute  
Menlo Park, California 94025

NIC 12523  
8-NOV-72

1

2

TRANSMITTAL TO: Saul Bergmann  
The Mitre Corporation  
P.O. Box 208  
Bedford, Mass. 01730

3

FROM: Susan Lee (SRI-ARC)  
Station Agent

4

At your request I am enclosing the following document:

5

NIC 11769 Computer Communication Network Design: Experience  
with Theory and Practice

5a

The Station Agent at Mitre, Ernest Forman, should have copies of  
NIC documents 4568, 10510, 4565, 7818, 7750, and  
8218. You should be able to borrow his copies or  
get copies of them. Documents 11748 and 11768  
will have to be obtained from Bolt Beranek and  
Newman Inc. and document 11749 will have to be  
ordered from Courant Institute as we do not have  
copies of them.

6

If you have any trouble obtaining any of these documents give me  
a call and I'll do what I can to help.

7



Transmittal to Robert H. Hinckley

ARPA Network Information Center  
Stanford Research Institute  
Menlo Park, California 94025

NIC 12524  
9-NOV-72

1

Robert H. Hinckley  
Department of Transportation  
Transportation Systems Center  
TC - 55 Broadway  
Cambridge, Mass. 02142

2

Dear Mr. Kinckley:

3

We have received notice that your office is now an Associate of the ARPA Network. As such, you will be receiving documents on distribution from the Network Information Center (NIC).

4

We are sending you a core collection of existing documents, including the following Functional Documents for which we will provide updates:

5

NIC 5145 Current Catalog of the NIC Collection  
1-AUG-72

5a

5150 Current Directory of Network Participants  
16-OCT-72

5b

7590 Network Information Center User Guide  
19-JUL-72

5c

The Network Resource Notebook (NIC 6740) and the Current Network Protocols (NIC 7104) are in the process of being revised. A copy will be sent to you within a few weeks.

6

We are also sending you a number of documents which you may need as background (see lst below).

7

We will be glad to supply copies of particular documents indicated by a back arrow in the Catalog Listings, and will loan or direct you to sources of other documents in the Listings.

8

Susan Lee, our Station Agent, accomplishes NIC distribution, and has now put you on distribution for all documents sent to Site Liaisons.

9

Jeanne North,  
Information and Station  
Agent Coordinator

10

Transmittal to Robert H. Hinckley

c: S. Crocker (ARPA)

encl: The ARPA Network  
Resource Sharing Computer Networks  
NIC 7542  
7750  
11924  
10507

11

Transmittal to Ralph Alter

ARPA Network Information Center  
Stanford Research Institute  
Menlo Park, California 94025

NIC 12525  
9-NOV-72

1

Ralph Alter  
Packet Communications, Inc.  
176 2nd Ave.  
Waltham, Mass. 02154

2

Dear Mr. Alter:

3

We have received notice that your office is now an Associate of the ARPA Network. As such, you will be receiving documents on distribution from the Network Information Center (NIC).

4

We are sending you a core collection of existing documents, including the following Functional Documents for which we will provide updates:

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19-JUL-72

5c

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8

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9

Jeanne North,  
Information and Station  
Agent Coordinator

10

c: S. Crocker (ARPA)

JBN 29-NOV-72 14:19 12525

Transmittal to Ralph Alter

encl: The ARPA Network  
Resource Sharing Computer Networks  
NIC 7542  
7750  
11924  
10507

11