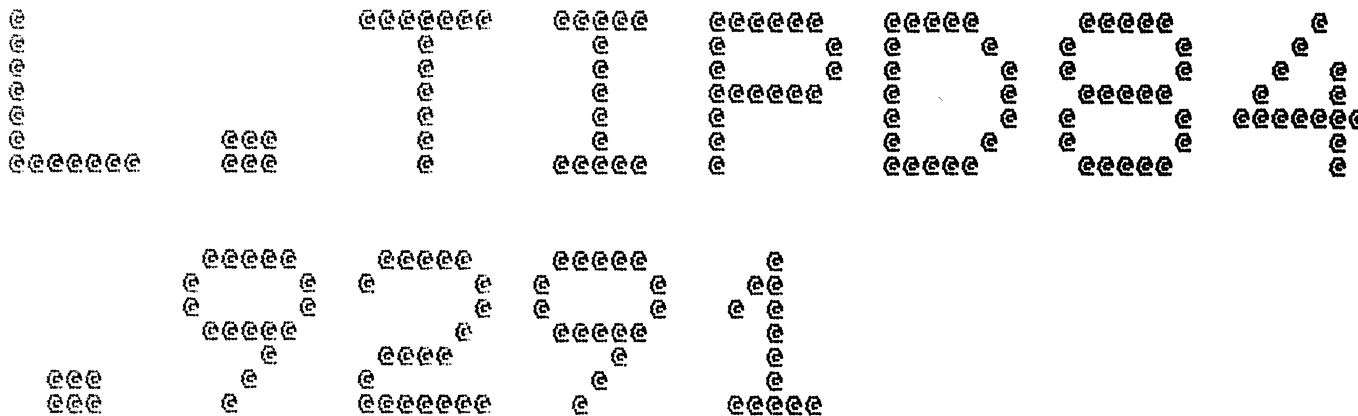


Spool Queue Line #: 30  
IRIS LU/Filename : 18/L.TIPD84.9291

Printed on/at : FEB 7, 1990 14:53:27  
For Group/User: 0, 1  
On Port No: 5

Print control parameters :  
Printer Class code : 0  
Form Code/paper type : ?  
Print Priority (0-9) : 5  
Starting Page Number : 1  
This is copy number : 1  
Keep file (Y/N) : Y  
Notify User when done: N  
Comments, optional : For RELSE CNTRL



Spool Queue Line #: 30  
IRIS LU/Filename : 18/L.TIPD84.9291

Printed on/at : FEB 7, 1990 14:53:33  
For Group/User: 0, 1  
On Port No: 5

Print control parameters :  
Printer Class code : 0  
Form Code/paper type : ?  
Print Priority (0-9) : 5  
Starting Page Number : 1  
This is copy number : 1  
Keep file (Y/N) : Y  
Notify User when done: N  
Comments, optional : For RELSE CNTRL

```
.EOT ; "TIP84" (DISCSUBS GROUP 5) FOR IRIS R9. xx  
.EOT  
.EOT ; "DSUBDEFS" FOR IRIS  
.END ; R9.0 DISCSUBS: TIPIST CALL 84
```

ASM 18/A.TIPD84.9291!,@18/L.TIPD84.9291!,B050,-B051,B052  
FEB 7, 1990 11:41:28

; Batchfile: R95JCL.TIPD84

; ; A = 9291

; -R95DEFSPZ  
; -R95DSUBDEFSD  
; R92TIPDSB84SA

.EOT ; "TIP84" (DISCSUBS GROUP 5) FOR IRIS R9.xx

<< SI = R92TIPDSB84SA; BO = 18/A.TIPD84.9291! >>

; RECORD LOCKING DISCSUB  
; LAST EDIT 6 FEB 86 BY RB., FOR NEW FIFO  
; LAST EDIT 11 JUL 86 BY JAS

; CALL B4,N,C,R,E  
; N=1 SET LOCK, N=2 TEST IF LOCKED  
; C=CHANNEL NO, R=RECORD NO  
; STATUS INDICATION RETURNED:  
; E=0 IF NOT LOCKED, E=PORT NO + 1 OF PORT WHO HAS RECORD LOCKED

```

          1          .TXTM          1
    104400          .LOC  LTP04

104400          163 DSB163: TIP04
104401          10          UTX-DSB163
104402 177570          DSB163-DSBEND

    104410 .LOC          .-1/4+1*4          ; ALIGN ON 4-WORD BOUNDARY

104410          4551 UTX:          JSR          PICKZ          ; PICK UP PARA.
104411          4403          JSR          LSEND          ; SWITCH

104412          423  LSTRT:        JMP          LCKB4
104413          422          JMP          LCKB4

104414          20407 LSEND:        LDA          0, SIZE          ; CHECK FOR VALID SUB. NO
104415          125014          SKZ          1, 1
104416          122433          SLE          1, 0
104417          2112          JMP          @.NRET          ; ERROR: PARAMETER OUT OF RANGE
104420          44407          STA          1, SUBNO
104421          137000          ADD          1, 3          ; FIND OFFSET.
104422          1777          JMP          -1, 3

104423          2  SIZE:          LSEND-LSTRT
104424          0  CNO:          0          ; CHANNEL NO
104425          0  REC:          0          ; RECORD NO.
104426          0  APT:          0          ; ARGUMENT LIST POINTER
104427          0  SUBNO:        0          ; SUBROUTINE MODE NUMBER
104430          0  DFTEID:        0          ; DFT ENTRY ID NUMBER
104431          0  DFTEADDR:      0          ; DFT ENTRY CORE ADDRESS
104432          0  BLKNO:         0          ; BLOCK NUMBER CONTAINING DESIRED RECORD
104433          0  DISP:         0          ; BYTE DISPLACEMENT IN BLOCK TO RECORD
104434          0  SVCLP:         0          ; SAVE CHANNEL LINKAGE POINTER

```

<< SI = R92TIPDSB84SA; BO = 18/A.TIPDB4.9291! >>

```
104435 4521 LCK84: JSR PICKN ; GET CHANNEL NO.
104436 44766 STA 1,CNO ; AND HOLD
104437 4517 JSR PICKN ; GET REC NO.
104440 44765 STA 1,REC ; STORE REC NO
104441 20005 LDA 0,RUP
104442 6101 CALL ; CONVERT RUP TO
104443 100022 CFPN ; PORT #
104444 6142 TRAPFAULT ; ILLEGAL RUP !
104445 24757 LDA 1,CNO ; OUR CHANNEL NUMBER
104446 34106 DFTCALL ; CONVERT TO DFT ENTRY ID CODE
104447 7772 DFTEFROMPC
104450 40760 STA 0,DFTEID
104451 4526 JSR GETBUFF ; GET 8-WORD BUFFER ADDRESS
104452 171000 MOV 3,2 ; (ACTUALLY NOT REQUIRED IN THIS CASE)
104453 34106 DFTCALL
104454 7776 DFTEREAD ; READ DFT ENTRY (IE. GET POINTER TO IT)
104455 50754 STA 2,DFTEADDR
104456 21005 LDA 0,WPR,2 ; WORDS PER RECORD
104457 30746 LDA 2,REC ; DESIRED RECORD NO.
104460 6116 BINMULTIPLY ; A0 * A2 --> A3, A0; IE. CALC. BLOCK, DISPL.
104461 24064 LDA 1,C377
104462 107400 AND 0,1 ; DISPL IN BLOCK
104463 122400 SUB 1,0
104464 127000 ADD 1,1 ; CHANGE TO BYTE DISPLACEMENT
104465 44746 STA 1,DISP
104466 24023 LDA 1,CM400
104467 167414 AND# 3,1,SZR ; BLOCK NO. > 64 K ?
104470 2112 JMP @,NRET ; YES, ERROR RETURN
104471 163300 ADDS 3,0 ; NO, COMBINE TO FORM BLOCK NO.
104472 40740 STA 0,BLKNO
104473 30736 LDA 2,DFTEADDR
104474 21007 LOOP: LDA 0,CLP,2 ; CHANNEL LINK POINTER TO NEXT DFT ENTRY
104475 30733 LDA 2,DFTEID
104476 112415 SNE 0,2 ; BACK TO WHERE WE STARTED ?
104477 430 JMP NOTLOK ; YES, RECORD IS NOT LOCKED
104500 40734 STA 0,SVCLP ; NO, SAVE CLP IN CASE THIS CHANNEL HAS IT LOCKED
104501 4476 JSR GETBUFF ; GET 8-WORD BUFFER
104502 171000 MOV 3,2
104503 34106 DFTCALL
104504 7776 DFTEREAD ; READ NEXT DFT ENTRY IN CHAIN
104505 21003 LDA 0,STS,2 ; CHANNEL STATUS
104506 125014 SKZ 1,1 ; CHANNEL BELONGS TO THIS USER,
104507 101113 SSN 0,0 ; OR NOT LOCKED ?
104510 764 JMP LOOP ; YES, TRY NEXT CHANNEL
104511 34721 LDA 3,BLKNO ; GET BLOCK NUMBER
104512 25002 LDA 1,CBN,2
104513 166414 SEQ 3,1 ; SAME ?
104514 760 JMP LOOP
104515 24066 LDA 1,C777
104516 107400 AND 0,1 ; CALC. DISPL.
104517 20714 LDA 0,DISP
104520 106414 SEQ 0,1 ; SAME DISPLACEMENT?
104521 753 JMP LOOP ; NO, CHECK NEXT CHANNEL
104522 20712 LDA 0,SVCLP ; YES, RECORD IS LOCKED; RETRIEVE CLP
104523 34106 DFTCALL ; CONVERT TO PORT NUMBER
104524 7773 DFTETOPC
104525 105400 INC 0,1 ; ADD 1 TO PORT NO
```

104526

420

JMP

L34

; STORE PORT NO

<< SI = R92TIPDSB84SA; BD = 18/A.TIPDB4.9291! >>

```

104527 104527 NOTLOK:
104527 20700 LDA 0,SUBNO ;SUBROUTINE NO. = MODE
104530 176520 SUBZL 3,3
104531 116414 SEQ 0,3 ;MODE = 1 ?
104532 413 JMP L33 ; NO
104533 30676 LDA 2,DFTEADR;YES, GET OWN CHANNEL ADDRESS
104534 21003 LDA 0,STS,2 ;GET STATUS WORD
104535 34436 LDA 3,CFMASK
104536 163500 ANDL 3,0 ;MASK OUT ALL BUT FLAGS
104537 101240 MOVDR 0,0 ;SET RECORD LOCKED
104540 34673 LDA 3,DISP
104541 163000 ADD 3,0 ;ADD IN OUR DISPLACEMENT
104542 41003 STA 0,STS,2 ;PUT BACK IN CHANNEL
104543 20667 LDA 0,BLKNO
104544 41002 STA 0,CBN,2 ;STORE BLOCK NO. IN CHANNEL
104545 126400 L33: SUB 1,1 ;SET PORT NO =0
104546 102400 L34: SUB 0,0 ;AO=0 MEANS SIGN POSITIVE
104547 6122 FLOAT ;FLOAT TO DECIMAL
104550 30656 LDA 2,APT ;ARG. POINTER
104551 102400 SUB 0,0 ;AO=0 MEANS STORE NUMBER
104552 25003 LDA 1,3,2 ;A1=NO TYPE
104553 31002 LDA 2,2,2 ;A2= ADDR. OF NUMBER
104554 6120 DECIMAL ;STORE AT ADDRESS OF E
104555 2113 JMP @.SRET

104556 30650 PICKN: LDA 2,APT ;PICK-UP NEXT PARAMETER FROM ARGUMENT LIST
104557 24002 LDA 1,C2
104560 133000 ADD 1,2
104561 50645 PICKZ: STA 2,APT
104562 54410 STA 3,RETS ;PICK-UP A NUMERIC PARAMETER
104563 25001 LDA 1,1,2 ;A1= NO. TYPE
104564 31000 LDA 2,0,2 ;A2= ADDR OF ARG
104565 102520 SUBZL 0,0 ;AO=1
104566 6120 DECIMAL
104567 6121 FIX ;A1= NO.
104570 2112 JMP @.NRET ;PARAMETER TOO BIG !?
104571 2401 JMP @RETS

104572 0 RETS: 0
104573 77000 CFMASK: 77000 ;MASK OUT ALL BUT STS FLAGS

104577 .LDC . /4*4+3 ;TO ALIGN BUFFER ON 4-WORD BOUNDARY

104577 GETBUFF:
104577 5400 JSR 0,3

104600 10 .BLK 10 ;BUFFER FOR A DFT ENTRY

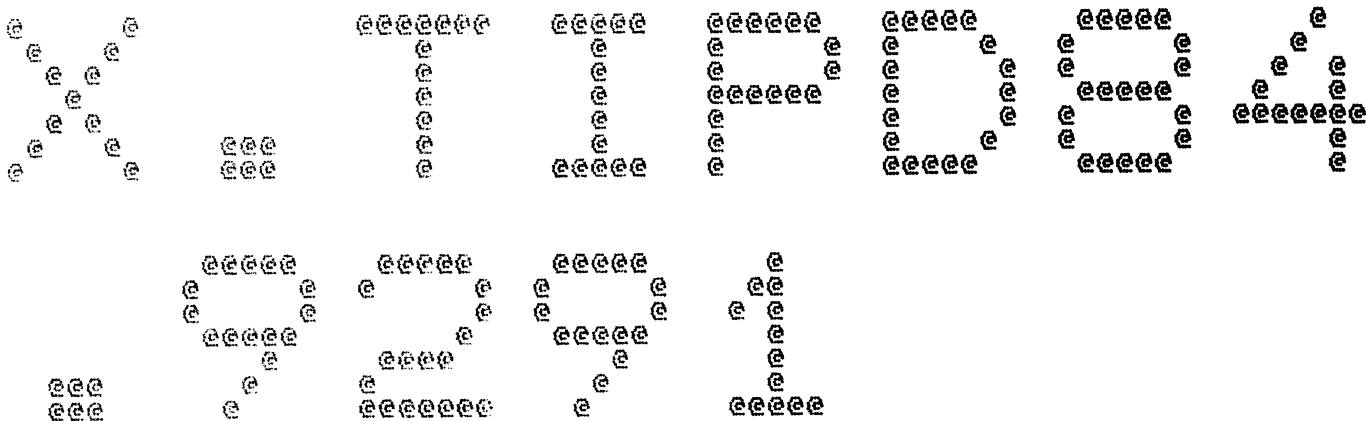
104610 DSBEND=. ;END OF DSUB
0 .ERR DSB163+400<. ;OVERFLOW CHECK
.END ;R9.0 DISCSUBS: TIPIST CALL 84

```



APT	104426	BINDI	6115	BINMU	6116	BLKNO	104432	BPI	16
BSACF	75	BUMPU	6117	C10	30	C100	51	C1000	67
C11	31	C12	32	C13	33	C14	34	C15	35
C16	36	C160	174	C163	175	C166	176	C17	37
C170K	21	C171	177	C177	52	C1777	70	C2	2
C20	42	C200	53	C2000	71	C205	54	C215	55
C240	56	C244	57	C260	60	C271	61	C3	3
C300	62	C334	63	C37	43	C377	64	C4	24
C40	44	C400	65	C4000	72	C5	25	C6	26
C600	100	C7	27	C77	50	C774C	22	C777	66
CALL	6101	CFMAS	104573	CHANN	6106	CM400	23	CND	104424
DA	160	DAC	164	DAS	165	DATAP	6110	DB	166
DBA	41	DBC	172	DBS	173	DECIM	6120	DFTCA	34106
DFTEA	104431	DFTE1	104430	DISP	104433	DMCAL	34110	DQUEUE	6105
DSB16	104400	DSBEN	104610	ERRF	76	ESCF	73	ETSF	74
FINDL	6123	FIX	6121	FLAGC	6102	FLOAT	6122	FREEN	6107
GETBU	104577	GETRY	6124	HALTS	6153	INBYT	6125	INSTB	6126
IOCAL	34103	IOP	6	ISA2D	6127	ISA2L	6130	JFLT0	151
L33	104545	L34	104546	LACNT	4000	LAFSE	13000	LALCO	47400
LALLO	1400	LATOE	36000	LBAKU	106000	LBILD	5000	LBUIL	4400
LCALL	75000	LCHAN	41000	LCHFL	30000	LCHSU	61000	LCKB4	104435
LCLEA	7400	LCLQS	7000	LCLPY	76000	LCNVA	11400	LCNVD	12000
LCOMM	33400	LDALC	2000	LDALL	1000	LDB7A	114000	LDB7B	114400
LDB7C	115000	LDB7D	115400	LDB7E	116000	LDB7F	116400	LDB7G	117000
LDB7H	117400	LDB7I	120000	LDEKE	52400	LDELE	3400	LDIRE	50400
LDLTP	20400	LDREN	37400	LDSB1	400	LDSB2	22400	LDSB3	47000
LDSB4	65000	LDSB5	77000	LDSB6	106400	LDSB7	113400	LECHO	37000
LEDB7	105400	LERRD	23000	LFAUL	400	LEFFIL	2400	LEFIXD	57400
LFNDC	112000	LFNDL	20000	LFOFI	17000	LEGETR	10000	LGHOP	107400
LGHOS	107000	LGMUX	16000	LHCON	17400	LIBCA	44400	LIBEN	45000
LIBTR	45400	LIDAT	103000	LLINK	35400	LLOAD	34400	LLOGI	32000
LLUIN	112400	LMAPB	73000	LMDE0	65000	LMDE1	66000	LMDE5	71400
LMRC3	56400	LMRFH	57000	LMRF1	54000	LMTAP	55400	LMTAS	54400
LMTFF	56000	LMTFY	60400	LMTNX	55000	LMTPL	60000	LOADD	6131
LQOP	104474	LOPEN	6000	LOPNM	13400	LPATQ	110000	LPEXP	23400
LPFAB	72000	LPFLN	73400	LPFNA	3000	LPFRL	72400	LPFSE	67000
LPFSE	70000	LPFSL	70400	LPLOG	24400	LPPWR	33000	LPRAN	36400
LPRCO	71000	LPSIN	25400	LPSQR	22400	LPTAN	25000	LQIBF	63400
LQICL	63000	LQIOP	62400	LRDFH	26400	LRDIS	31400	LRDSE	110400
LREDC	50000	LREDI	11000	LREDM	14000	LREDP	74000	LRENA	15000
LRDOP	53000	LRESO	42000	LRWIT	113000	LRWMB	14400	LRWSX	111400
LS105	77000	LS152	102000	LS153	101000	LS154	100400	LS156	101400
LS157	100000	LSAVE	43000	LSAVP	43400	LSEAB	64000	LSEAR	51000
LSEND	104414	LSETF	40000	LSHUF	52000	LSIGP	12400	LSING	40400
LSMCS	106400	LSPEC	27000	LSTRI	32400	LSTRT	104412	LSYSC	30400
LTP01	102400	LTP03	104000	LTP04	104400	LTP05	105000	LVMUX	42400
LWRIT	47000	LXMIN	62000	NOTLO	104527	OUTBY	6132	OUTTE	6133
P1B	4	PICKN	104556	PICKZ	104561	PUTBY	6134	QCHAR	6103
QUEUE	6104	READB	6135	REC	104425	RELJM	6136	RETS	104572
RJSR	6136	RTP	7	RUP	5	SBA	40	SCDCA	34147
SIZE	104423	SPINP	6146	STINP	6140	STINT	6147	STORD	6137
STOUT	6141	SUBNO	104427	SVCLP	104434	TASKQ	15	TRAPF	6142
UTX	104410	WRITB	6143	XGETB	6144	XPUTB	6145	.ABA	14
.BPS	77	.BSA	10	.DA	174	.DA3	175	.DB	176
.DB3	177	.FLTO	152	.HBA	11	.HXA	12	.INFO	100
.INTR	111	.LCM	114	.NRET	112	.SRET	113	.SSA	13

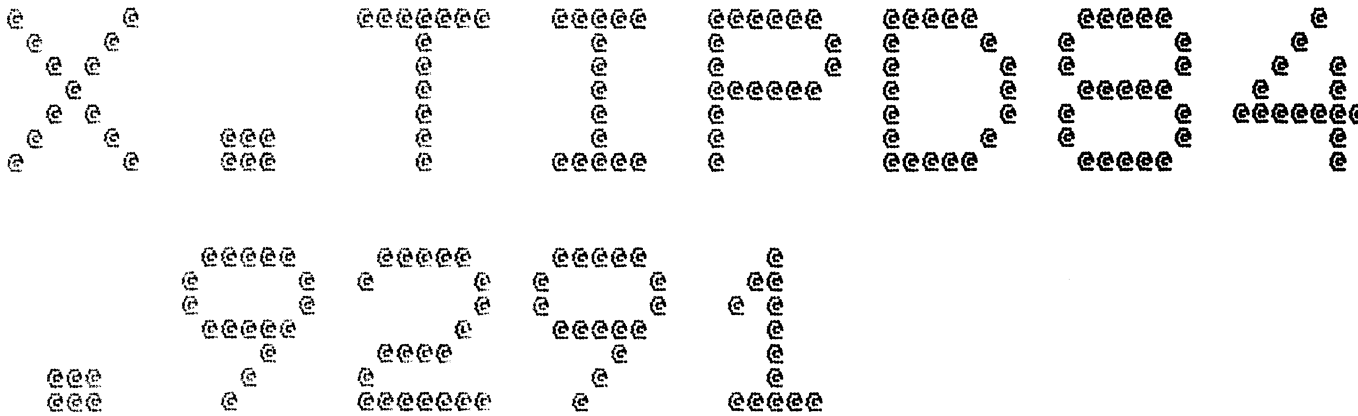




Spool Queue Line #: 31  
IRIS LU/Filename : 18/X.TIPDB4.9291

Printed on/at : FEB 7, 1990 14:54:31  
For Group/User: 0, 1  
On Port No: 5

Print control parameters :  
Printer Class code : 0  
Form Code/paper type : ?  
Print Priority (0-9) : 5  
Starting Page Number : 1  
This is copy number : 1  
Keep file (Y/N) : Y  
Notify User when done: N  
Comments, optional : For RELSE CNTRL



Spool Queue Line #: 31  
IRIS LU/Filename : 18/X.TIPD84.9291

Printed on/at : FEB 7, 1990 14:54:37  
For Group/User: 0, 1  
On Port No: 5

Print control parameters :  
Printer Class code : 0  
Form Code/paper type : ?  
Print Priority (0-9) : 5  
Starting Page Number : 1  
This is copy number : 1  
Keep file (Y/N) : Y  
Notify User when done: N  
Comments, optional : For RELSE CNTRL

\*\*\*\*\* J O B   S T A T I S T I C S   \*\*\*\*\*

0	TOTAL # DUPLICATE KEYS
0	TOTAL # DIR. RE-ORGS
107	TOTAL # KEYS INSERTED
0	TOTAL # ASSEMBLY ERRS

.ERR	4.059			
.NRET	2.035	3.034	4.042	
.SRET	4.030			
APT	2.043:	4.025	4.032	4.035
BINMU	3.026			
BLKNO	2.047:	3.036	3.051	4.020
C2	4.033			
C377	3.027			
C777	3.055			
CALL	3.012			
CBN	3.052	4.021		
CFMAS	4.014	4.046:		
CLP	3.038			
CM400	3.032			
CNO	2.041:	3.008	3.015	
CPPPN	3.013			
DECIM	4.029	4.040		
DFTCA	3.016	3.021	3.045	3.061
DFTEA	2.046:	3.023	3.037	4.012
DFTEF	3.017			
DFTEI	2.045:	3.018	3.039	
DFTER	3.022	3.046		
DFTET	3.062			
DISP	2.048:	3.031	3.057	4.017
DSB16	2.020:	2.021	2.022	4.059
DSBEN	2.022	4.057=		

FIX	4.041			
FLOAT	4.024			
GETBU	3.019	3.043	4.051:	
L33	4.011	4.022:		
L34	3.064	4.023:		
LCK84	2.029	2.030	3.007:	
LOOP	3.038:	3.050	3.054	3.059
LSEND	2.027	2.032:	2.040	
LSTRT	2.029:	2.040		
LTP04	2.018			
NOTLO	3.041	4.007:		
PICKN	3.007	3.009	4.032:	
PICKZ	2.026	4.035:		
REC	2.042:	3.010	3.025	
RETS	4.036	4.043	4.045:	
RUP	3.011			
SIZE	2.032	2.040:		
STS	3.047	4.013	4.019	
SUBND	2.036	2.044:	4.008	
SVCLP	2.049:	3.042	3.060	
TIP04	2.020			
TRAPP	3.014			
UTX	2.021	2.026:		
WPR	3.024			