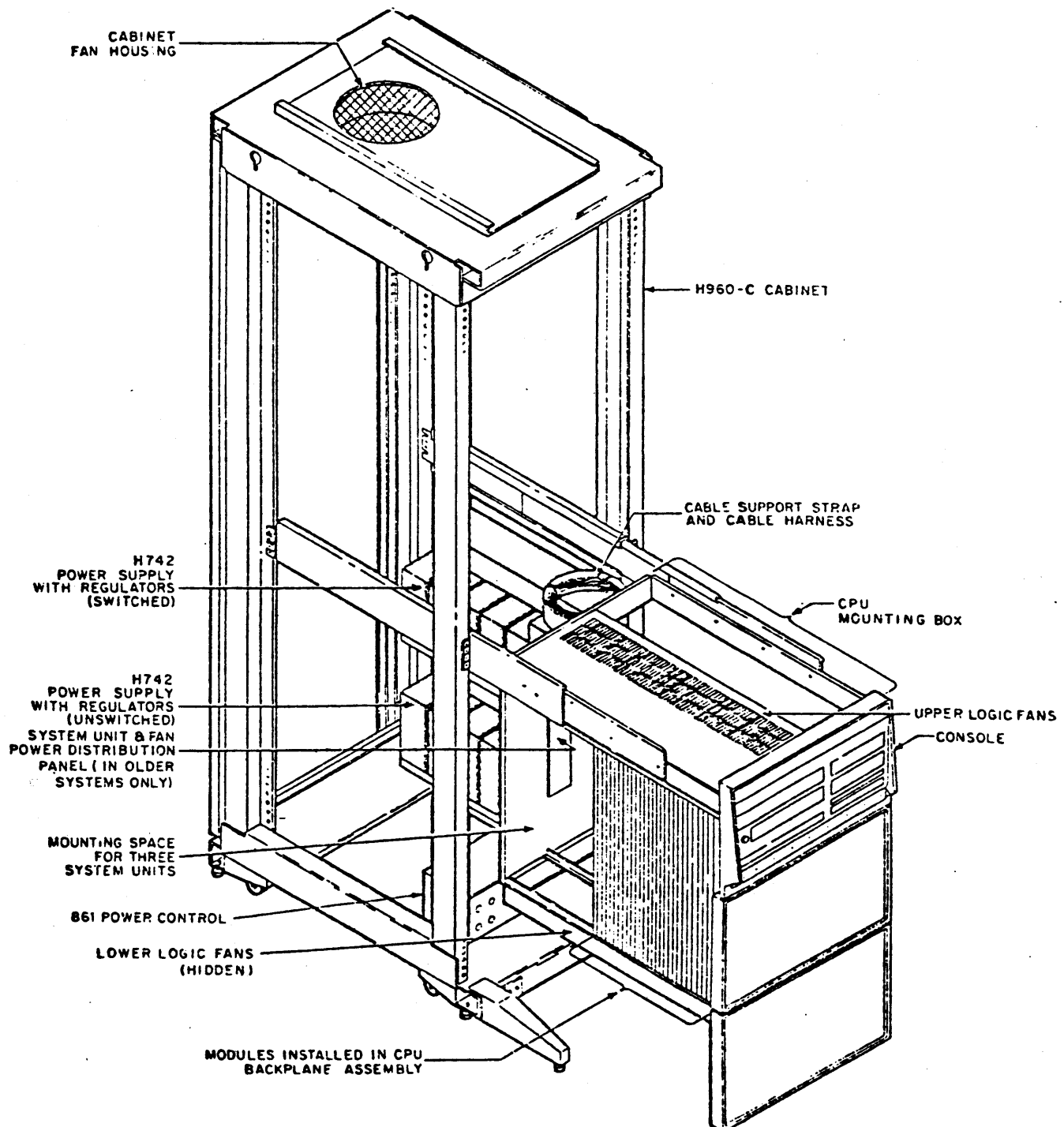


PDP-11/45 /70

MAINTENANCE COURSE handout book



SOURCEDESTINATION

DAPA BR00H
 DAPA BR01H
 DAPA BR02H
 DAPA BR03H
 DAPA BR04H
 DAPA BR05H
 DAPA BR06H
 DAPA BR07H
 DAPA BR08H
 DAPA BR09H
 DAPA BR10H
 DAPA BR11H
 DAPA BR12H
 DAPA BR13H
 DAPA BR14H
 DAPA BR14L
 DAPA BR15H

DAPB, DAPE, IRCF, IRCH
 DAPB, DAPE, IRCE, IRCH
 DAPB, DAPE, IRCF, IRCH
 DAPB, DAPE, IRCF, IRCH
 DAPE, DAPE
 DAPB, DAPE
 DAPC, DAPE
 DAPC, DAPD, DAPE
 DAPC
 DAPC
 DAPC
 DAPD
 DAPD
 DAPD
 RACK
 DAPD

DAPB BAMX00H
 DAPB BAMX01H
 DAPB BAMX02H
 DAPB BAMX03H
 DAPB BAMX04H
 DAPB BAMX05H
 DAPB BAMXS1L
 DAPB BAMXS0L
 DAPB AMX00H
 DAPB AMX01H
 DAPB AMX02H
 DAPB AMX03H
 DAPB AMX04H
 DAPB AMX05H
 DAPB AMXS1L
 DAPB AMXS0L

SJBA, TMCC, UBCC
 SJBA, TMCD
 SJBA, TMCD
 SJBA, TMCD (2)
 SJBA, TMCD
 SJBA, TMCD
 DAPC, DAPD
 DAPC, DAPD
 DAPF, GRAA, IRCE
 DAPF
 DAPF
 DAPF
 DAPF
 DAPF
 DAPC, DAPD
 DAPC, DAPD

DAPB BMX00H
 DAPB BMX01H
 DAPB BMX02H
 DAPB BMX03H
 DAPB BMX04H
 DAPB BMX05H

DAPF
 DAPF
 DAPF
 DAPF
 DAPF
 DAPF

SOURCEDESTINATION

DAPB BMXS1LOBL
DAPB BMXSØLOBL

DAPC
DAPC

DAPC BAMXØ6H
DAPC BAMXØ7H
DAPC BAMXØ8H
DAPC BAMXØ9H
DAPC BAMX1ØH
DAPC BAMX11H
DAPC AMXØ6H
DAPC AMXØ7H
DAPC AMXØ8H
DAPC AMXØ9H
DAPC AMX1ØH
DAPC AMX11H
DAPC BMXØ6H
DAPC BMXØ7H
DAPC BMXØ8H
DAPC BMXØ9H
DAPC BMX1ØH
DAPC BMX11H

SJBA, TMCD
SJBA, TMCD
SJBA, PDRC
SJBA, PDRC
SJBA, PDRC
SJBA, PDRC
SJBA, PDRC
DAPF
DAPF, FAPJ, IRCE
DAPH
DAPH
DAPH
DAPH
DAPF
DAPF, IRCE
DAPH
DAPH
DAPH
DAPH

DAPD BAMX12H
DAPD BAMX13H
DAPD BAMX14H
DAPD BAMX15H
DAPD AMX12H
DAPD AMX13H
DAPD AMX14H
DAPD AMX15H

PDRC, SJBA
DAPD, PDRC, SJBA
DAPD, PDRC, SJBA
DAPD, PDRC, SJBA
DAPH
DAPH
DAPH
DAPH, DAPS, IRCE

DAPD BMX12H
DAPD BMX13H
DAPD BMX14H
DAPD BMX15H
DAPD EX MEM FLAG H
DAPD BMXSØHIBL
DAPD BMXS1HIBL
DAPD KØEXH
DAPD KØMXØØBL
DAPD KØMXØØH
DAPD KØMXØ1BL
DAPD KØMXØ1H
DAPD KØMXØ2BL

DAPH
DAPH
DAPH
DAPH, IRCE
SJBB
DAPC, DAPD
DAPC, DAPD
DAPC (2) DAPD (4)

DAPB

DAPB

SOURCEDESTINATION

DAPD	KØMXØ2H	DAPB
DAPD	KØMXØ3BL	
DAPD	KØMXØ3H	DAPB
DAPE	TVØ1H	DAPE
DAPE	TVØ6H	DAPE
DAPE	TVØ2H	DAPE
DAPE	TVØ3H	DAPE
DAPE	TVØ4H	DAPE
DAPE	TVØ5*Ø7H	DAPE (2)
DAPE	SVØ2H	DAPE
DAPE	SVØ3H	DAPE
DAPE	SVØ4H	DAPE
DAPE	SVØ5H	DAPE
DAPE	SVØ6H	DAPE
DAPE	SVØ7H	DAPE (2)
DAPE	KIMXØ1H	DAPB
DAPE	KIMXØ2H	DAPB
DAPE	KIMXØ3H	DAPB
DAPE	KIMXØ4H	DAPB
DAPE	KIMXØ5H	DAPB
DAPE	KIMXØ6H	DAPC
DAPE	KIMXØ7H	DAPC
DAPE	KIEXH	DAPC (4), DAPD (4)
DAPF	LS3H	DAPF
DAPF	LS2H	DAPF
DAPF	LS1H	DAPF
DAPF	LSØH	DAPF
DAPF	LMH	DAPF
DAPF	COUTØ3L	DAPF
DAPF	SHRØØH	GRAB, GRAD, PDRA, PDRF
DAPF	SHRØ1H	GRAB, GRAD, PDRA, PDRF
DAPF	SHRØ2H	GRAB, GRAD, PDRA, PDRF
DAPF	SHRØ3H	GRAB, GRAD, PDRA, PDRF
DAPF	PCBØØH	DAPB, DAPF
DAPF	PCBØ1H	DAPB, DAPF
DAPF	PCBØ2H	DAPB, DAPF
DAPF	PCBØ3H	DAPB, DAPF
DAPF	PCBØ4H	DAPB, DAPF
DAPF	PCBØ5H	DAPB, DAPF
DAPF	A=B (15:Ø)L	IRCF
DAPF	A=B (7:Ø)H	IRCF
DAPF	COUTØ7L	DAPH, DAPS
DAPF	SHFRS1BH	
DAPF	SHFRSØBH	
DAPF	+3VH	DAPA, DAPD
DAPF	+3VH	DAPF (2), DAPH

SOURCE

DAPF ALU04H
 DAPF ALU05H
 DAPF ALU06H
 DAPF ALU07H
 DAPF SHFS0H
 DAPF SHFS1H
 DAPF SHFR04H
 DAPF SHFR05H
 DAPF SHFR06H

DAPF +3VAH

DAPH HS0H
 DAPH HS1H
 DAPH HS2H
 DAPH HS3H
 DAPH ALU08H
 DAPH ALU09H
 DAPH ALU10H
 DAPH ALU11H
 DAPH COUT11L
 DAPH SHFR08H
 DAPH SHFR09H
 DAPH SHFR10H
 DAPH SHFR11H
 DAPH PCB06H
 DAPH PCB07H
 DAPH PCB08H
 DAPH PCB09H
 DAPH PCB10H
 DAPH PCB11H
 DAPH HMM
 DAPH COUT15L
 DAPH COUT15H
 DAPH ALU12H
 DAPH ALU13H
 DAPH ALU14H
 DAPH ALU15H
 DAPH SHFR12H
 DAPH SHFR13H
 DAPH SHFR14H
 DAPH PCB12H
 DAPH PCB13H
 DAPH PCB14H
 DAPH PCB15H

DESTINATION

DAPF (2), DAPH
 DAPF, DAPH
 DAPF, DAPH (2)
 DAPH, DAPJ (3)
 DAPH, DAPJ
 DAPH, DAPJ
 GRAB, GRAE, PDRA, PDRF
 GRAB, GRAE, PDRA, PDRF
 GRAB, GRAE, PDRA, PDRF

DAPF (2)

DAPH
 DAPH
 DAPH
 DAPH
 DAPF
 DAPF
 DAPF
 DAPF
 DAPH
 GRAB, GRAF, PDRA, PDRF
 GRAB, GRAF, PDRA, PDRF
 GRAB, GRAF, PDRA, PDRF
 GRAB, GRAF, PDRA, PDRF
 DAPC, DAPF
 DAPC, DAPJ
 DAPC, DAPH, DAPJ
 DAPC, DAPH
 DAPC, DAPH
 DAPC, DAPH
 DAPH
 DAPJ
 DAPF, DAPH
 DAPF, DAPH
 DAPF, DAPH
 DAPJ (4)
 GRAB, GRAH, PDRA, PDRF
 GRAB, GRAH, PDRA, PDRF
 GRAB, GRAH, PDRA, PDRF
 DAPD, DAPH
 DAPD, DAPH
 DAPD, DAPH
 DAPD, DAPJ

SOURCEDESTINATION

DAPJ PCB+RTSHØ7H
 DAPF PCB+RTSH15H
 DAPF SHFRAØ7H
 DAPJ SHFRØ7H
 DAPJ SHFRA15H
 DAPJ SHFR15H
 DAPJ ALUCNL
 DAPJ A=B (15:8)+BYTEH
 DAPJ ALU SIGNH
 DAPJ AMXSIGNH
 DAPJ CLKPCBH
 DAPJ CLKPCAH
 DAPJ LEFTDATAH

DAPJ
 DAPJ
 IRCE, IRCF
 GRAB, BRAE, PDRA, PDRF
 IRCE, IFCF
 GRAB, GRAH, PDRA, PDRF
 IRCF
 IRCF
 IRCE
 IRCE
 DAPF, DAPH
 DAPF, DAPH
 GRAB, GRAD

GRAA ROMSHFSØH
 GRAA ROMSHS1H
 GRAA ROMCH
 GRAA ROMMH
 GRAA MODEH
 GRAA UALUØL
 GRAA ROMSØH
 GRAA ROMS1H
 GRAA ROMS2H
 GRAA ROMS3H
 GRAA ROMSØL
 GRAA CINL
 GRAA AMXØ*ASHL
 GRAA OBSWAPL
 GRAA CDEPL
 GRAA SGNEXMOVBL
 GRAA ALUINSDEPL
 GRAA ALUSØL
 GRAA ALUS1L
 GRAA ALUS2L
 GRAA ALUS3L
 GRAA OBSWAPH
 GRAA SWAPL
 GRAA SHFRSØL
 GRAA SHFRS1L
 GRAA ALUCH
 GRAA ALUML
 GRAA WORD+OBSWAPH
 GRAA WORD+OBSWAPL

GRAA
 IRCC

GRAA
 GRAA
 IRCF
 IRCE

DAPD
 GRAJ (2)
 DAPF, DAPH
 DAPF, DAPH
 DAPF, DAPH
 DAPF, DAPH
 GRAB
 GRAA
 DAPF (2)
 DAPF (2)
 DAPF
 DAPF, DAPH
 IRCE, IRCF
 GRAB, IRCE, IRCF

SOURCEDESTINATION

GRAB DMØ (MFP+MTP) CONDL
 GRAB DSTSET1L
 GRAB SRCSET1L
 GRAB OBD (Ø) H
 GRAB OBD (1) H
 GRAB LEFTSAVE (Ø)
 GRAB LEFTSAVE (1) H
 GRAB ZDATA2L

GRAC
 GRAC
 GRAC
 RACK
 GRAA, IRCB, RACL
 GRAJ
 GRAJ (2)
 IRCF

GRAC PLUS1L
 GRAC +3VH
 GRAC PADØØL
 GRAC GRADENL
 GRAC GSA1H
 GRAC GSA1H
 GRAC GSA2H
 GRAC GDA1H
 GRAC GDA2H
 GRAC DMØX (MFP+MTP) CONDH
 GRAC DRMXSELL
 GRAC SRMXSELL
 GRAC GSREGSET1H
 GRAC GSAØH
 GRAC GDREGSET1H
 GRAC GDAØH
 GRAC GD6L
 GRAC ACT*1RØ3L
 GRAC GRA3L
 GRAC GRA2L
 GRAC GRA1L
 GRAC GRAØL
 GRAC T6L
 GRAC GATET6H
 GRAC GRWELOBL
 GRAC GRWEH1BL

GRAC
 GRAC
 GRAC
 GRAC
 GRAC, GRAD, GRAE, GRAF
 GRAH
 GRAC, GRAD, GRAE, GRAF, GRAH
 GRAC, GRAD, GRAE, GRAF, GRAH
 GRAC, GRAD, GRAE, GRAF, GRAH
 GRAC
 GRAD, GRAE, GRAF, GRAH
 GRAD, GRAE, GRAF, GRAH
 GRAD, GRAE, GRAF, GRAH
 GRAC, GRAD, GRAE, GRAF, GRAH
 GRAD, GRAE, GRAF, GRAH
 GRAD, GRAE, GRAF, GRAH
 TMCC
 IRCC
 TMCC

GRAD
 IRCH
 GRAD (2), GRAE (2)
 GRAF (2), GRAH (2)

GRAD DRMXØØH
 GRAD GSØ3L
 GRAD GSØ2L
 GRAD GSØ1L
 GRAD GSØØL
 GRAD CLKDRH
 GRAD CLRDRL
 GRAD DRØØH
 GRAD DRØ1H

GRAB
 GRAE
 GRAE
 GRAE
 GRAE
 GRAE, GRAF, GRAH
 GRAE, GRAF, GRAH
 DAPB, GRAJ, IRCF, RACK (2)
 DAPB, GRAJ, IRCF, RACK (2)

SOURCEDESTINATION

GRAD DR02H
 GRAD DR03H
 GRAD CLKS RH
 GRAD SR00H
 GRAD SR01H
 GRAD SR02H
 GRAD SR03H
 GRAD SR04H
 GRAD SR05H

DAPB, GRAJ, IRCF, RACK (2)
 DAPB, GRAE, GRAJ
 GRAE, GRAF, GRAH
 DAPB, GRAE (2), IRCC
 DAPB
 DAPB
 DAPB
 DAPB
 DAPB

GRAE SRMX04H
 GRAE SRMX05H
 GRAE SRMX06H
 GRAE SRMX07H
 GRAE +3VH
 GRAE DR04H
 GRAE DR05H
 GRAE DR06H
 GRAE DR07H
 GRAE SREQONEL
 GRAE SRLEQZEROH

GRAD
 GRAD
 GRAF
 GRAF
 GRAD, GRAE, GRAF, GRAH
 DAPB, GRAD, GRAE, GRAJ
 DAPB, GRAE, GRAJ
 DAPC, GRAE
 DAPC, GRAE, GRAF
 RACK
 GRAJ

GRAF GS08L
 GRAF GS09L
 GRAF GS10L
 GRAF GS11L
 GRAF DR08H
 GRAF DR09H
 GRAF DR10H
 GRAF DR11H
 GRAF SR06H
 GRAF SR07H
 GRAF SR08H
 GRAF SR09H
 GRAF SR10H
 GRAF SR11H

GRAE
 GRAE
 GRAE
 GRAE
 DAPC, GRAE
 DAPC
 DAPC
 DAPC, GRAH
 DAPC
 DAPC, DAPD
 DAPC
 DAPC
 DAPC
 DAPC
 DAPC

GRAH GS12L
 GRAH GS13L
 GRAH GS14L
 GRAH GS15L
 GRAH DR12H
 GRAH DR13H
 GRAH DR14H
 GRAH DR15H

GRAE
 GRAE
 GRAE
 GRAE
 DAPD, GRAF
 DAPD
 DAPD
 DAPD, IRCF

SOURCEDESTINATION

GRAH DR15L
 GRAH SR12H
 GRAH SR13H
 GRAH SR14H
 GRAH SR15H
 GRAH SR15L

GRAA, IRCF
 DAPD
 DAPD
 DAPD
 DAPD, GRAJ(2), RACK
 GRAE, GRAJ(3), RACK

GRAJ TP(3:5)H
 GRAJ LDSCL
 GRAJ SC00H
 GRAJ SC01H
 GRAJ SC02H
 GRAJ SC03H
 GRAJ SC04H
 GRAJ SC=0L
 GRAJ SC05L
 GRAJ SHFRDATAH
 GRAJ DIVQUITL
 GRAJ DIVSUBL

GRAD, GRAJ
 GRAJ

RACK(2)
 GRAJ(2), RACK
 DAPJ
 RACK
 RACK

IRCA IR00(0)H
 IRCA IR00(1)H
 IRCA IR01B(1)H
 IRCA IR01(0)H
 IRCA IR01(1)H
 IRCA IR02B(1)H
 IRCA IR02(0)H
 IRCA IR02(1)H
 IRCA IR03(0)H
 IRCA IR03(1)H
 IRCA IR04(0)H
 IRCA IR04(1)H
 IRCA IR05(0)H
 IRCA IR05(1)H
 IRCA IR06(0)H
 IRCA IR06(1)H
 IRCA IR07(0)H
 IRCA IR07(1)H

GRAB, GRAC, IRCD(2)
 IRCC, IRCD, IRCH(2)
 IRCD(2), IRCH
 GRAB, IRCD
 GRAB, GRAC, IRCC, IRCD, IRCH
 IRCD(2), IRCH(2)
 GRAB, IRCD
 GRAB, GRAC, IRCC, IRCD
 IRCC
 GRAC, IRCC, IRCH(2)
 IRCH
 IRCC(2), IRCH
 IRCC(2)
 IRCC
 GRAB
 GRAC, IRCB, IRCH
 GRAB
 GRAC(2), GRAB, IRCB, IRCC, IRCH

IRCA IR08B(1)H
 IRCA IR08(0)H
 IRCA IR08(1)H
 IRCA IR09(0)H
 IRCA IR09(1)H
 IRCA IR10(0)H

IRCC, IRCD
 GRAB, IRCD
 GRAB, GRAC(2), IRCB, IRCD, IRCH
 IRCB
 IRCB, IRCC, IRCH(2)

SOURCEDESTINATION

IRCA	IR10(1)H	IRCB(2), IRCC, IRCH
IRCA	IR11(0)H	IRCB, IRCH
IRCA	IR11(1)H	IRCB, IRCC, IRCH
IRCA	IR12(0)H	IRCB, IRCD, IRCH(2)
IRCA	IR12(1)H	IRCB, IRCH(2)
IRCA	IR13(0)H	IRCB, IRCH
IRCA	IR13(1)H	IRCB, IRCD, IRCH(3)
IRCA	IR14(0)H	IRCB, IRCH
IRCA	IR14(1)H	IRCB, IRCD, IRCH(3)
IRCA	IR15B(1)H	IRCA, IRCB(4), IRCC, IRCD
IRCA	IR15(0)H	IRCB, IRCC, IRCD
IRCA	IR15(1)H	IRCD(3), IRCH
IRCB	IR(14:12)7H	IRCC
IRCB	IR(14:12)7L	IRCB(2)
IRCB	IR(14:12)1L	IRCB, IRCC
IRCB	IR(14:12)0L	
IRCB	IR(14:12)0H	IRCB, IRCD(2)
IRCB	IR(14:9)06L	IRCC(2), IRCD
IRCB	IR(14:9)05L	IRCB, IRCC, IRCD
IRCB	IR(14:9)04L	IRCB(2), IRCD
IRCB	IR(14:9)00L	IRCB(2)
IRCB	SRCF7L	DAPJ, GRAC, IRCC
IRCB	IR(8:6)6L	IRCC(2)
IRCB	IR(8:6)4L	IRCB
IRCB	IR(8:6)3L	IRCB
IRCB	IR(8:6)2L	IRCB
IRCB	IR(8:6)1L	IRCB
IRCB	IR(8:6)0L	IRCB, IRCD
IRCB	IR(8:6)0+2H	IRCB
IRCB	OBD(ASRB+RORB)L	GRAA, IRCB
IRCB	(MUL:ASHC)+MFPL	
IRCB	JMP+JSRH	
IRCB	FJCLASSL	RACK, RACL
IRCB	FCLASSH	IRCC, IRCD(2), IRCE
IRCB	KCLASSH	
IRCB	ICLASSL	GRAC, GRAJ
IRCB	MOVBL	IRCD
IRCB	MOVBH	GRAA
IRCB	SWABH	
IRCB	PCLASSH	GRAJ, TMCE
IRCB	PARTPCLASSL	IRCC
IRCB	BIRAB00L	RACL
IRCB	B0RAB03L	RACL(2)
IRCB	NEG.BH	
IRCB	NEG.BL	GRAA, IRCB

SOURCEDESTINATION

IRCB BØRABØ4L
 IRCB BØRABØ2L
 IRCB BØRABØ1L
 IRCB BØRABØØL

RACL(2)
 RACL
 RACL
 RACL

IRCC SRCMØL
 IRCC SRCM2L
 IRCC SRCM3L
 IRCC SRCM4L
 IRCC SRCM5L
 IRCC SRCM7L
 IRCC FCLASSL
 IRCC DSTF7L
 IRCC IR(11:9)6H
 IRCC OCLASSL
 IRCC OCLASSH
 IRCC CØRABØ3L
 IRCC CØRABØ2L
 IRCC CØRABØ1L
 IRCC CØRABØØL
 IRCC DSTM7L
 IRCC DSTM5L
 IRCC DSTM4L
 IRCC DSTM3L
 IRCC DSTM2L
 IRCC DSTMØH
 IRCC DSTMØL
 IRCC SRCCON 2H
 IRCC SM357H
 IRCC SRCCON 1H
 IRCC (ROR.B+MUL)H
 IRCC MFP+MTPH
 IRCC DMØ(MFP+MTP)H
 IRCC ROMDECENAH

IRCD
 IRCC
 IRCC(2)
 IRCC
 IRCC(2)
 IRCC
 IRCD
 IRCB, IRCD
 RACK, TMCE(2)
 RACL
 RACL
 RACL
 RACL
 DAPJ, GRAC, IRCD(2)
 IRCD(2)
 IRCD(2)
 IRCD(2)
 IRCD(2)
 RACL
 GRAA, IRCC, RACL
 DAPD
 RACL, TMCC
 DAPD
 DAPJ(2), IRCC
 GRAB, GRAC
 IRCB(3)

IRCD DSTF67H
 IRCD DSTM24H
 IRCD DSTCON 1ØH
 IRCD DSTCON 4H
 IRCD DSTCON 2H
 IRCD DSTCON 1H
 IRCD BYINAH
 IRCD SBYNH
 IRCD BYINH
 IRCD WDINH
 IRCD BYIN*(-MOV)B)L
 IRCD DM357H
 IRCD +3VH

IRCD
 IRCD
 DAPD
 DAPD
 DAPD
 DAPD
 IRCD(3), IRCE
 IRCC(2)
 DAPJ(2), IRCD
 IRCC, IRCD, IRCE(2)
 GRAC
 RACK
 IRCB(2), IRCC(2), IRCD

SOURCEDESTINATION

IRCD DSTF6H
 IRCD RTTL
 IRCD IOTL
 IRCD OPCODE3L
 IRCD TRAPL
 IRCD EMTL

GRAC (2)
 TMCB
 DAPE
 DAPE
 DAPE
 DAPE

IRCE ENWORDH
 IRCE ENLOBH
 IRCE ENHIBH
 IRCE LOBCARRYH
 IRCE WOBCARRYH
 IRCE PSLOADL
 IRCE CC BRH
 IRCE LOADFCCL
 IRCE VDATAL

GRAB
 GRAB
 GRAB
 IRCF
 IRCF
 IRCF (3), IRCE
 IRCF (2)
 IRCE, IRCF (3)
 IRCH

IRCF CCINSDEPAH
 IRCF CCFPLOADL
 IRCF CCLD4L
 IRCF CCINSDEPH
 IRCF CCLD5L
 IRCF CCLØ2L
 IRCF CCLØØL
 IRCF CCLD67L
 IRCF CCLD7L
 IRCF CEN2H
 IRCF CEN1H
 IRCF CDATAL
 IRCF CCNONAFFLE
 IRCF Z2 (Ø) H
 IRCF Z2 (1) H
 IRCF Z1 (Ø) H
 IRCF Z1 (1) H
 IRCF BR=1SAVE (0) H
 IRCF BR=1SAVE (1) H
 IRCF ZIN VH
 IRCF NEN1H
 IRCF MUL+DIVNZVENH
 IRCF ZDATA1L
 IRCF SETVH
 IRCF NDATAL
 IRCF CHECK2H
 IRCH SWABL
 IRCH BINL

IRCE, IRCF (2)
 IRCE
 IRCE, IRCF
 IRCE (3), IRCF
 IRCH
 IRCH
 IRCE, IRCF
 IRCF (2)
 IRCH
 IRCE, IRCF (3)
 GRAJ, IRCH
 RACH
 IRCH
 IRCH
 IRCF
 IRCF
 IRCE, IRCF
 IRCE, IRCF
 IRCF
 IRCE
 IRCH
 GRAB
 GRAA (2), IRCE (2), IRCF
 IRCC, IRCH

SOURCEDESTINATION

IRCH +3VH	IRCE, IRCF, IRCH(2)
IRCH SUBL	IRCH
IRCH CLKINHL	IRCH
IRCH SE+CCH	IRCF
IRCH CCCLKH	
IRCH N(Ø)H	GRAJ, IRCH, RACF
IRCH N(1)H	GRAA, GRAJ, IRCF, RACF(2)
IRCH NB(1)H	PDRD
IRCH MATNH	--
IRCH ZCLRL	--
IRCH Z(Ø)H	--
IRCH MATZH	--
IRCH Z(1)H	GRAB, IRCF(2), IRCH, PDRD, PDRE, RACF(2)
IRCH ZSETL	IRCF
IRCH ENVH	IRCE
IRCH VMODØH	IRCE
IRCH VMOD1H	IRCE(2)
IRCH ENCH	IRCF
IRCH CMODØH	IRCF(2)
IRCH CMOD1H	IRCF(2)
IRCH ENZNH	IRCF
IRCH MODZNH	IRCE, IRCF(4)
IRCH V(Ø)H	RACF
IRCH V(1)H	IRCE, PDRD, RACF(2)
IRCH MATVH	--
IRCH SUBROMAØH	GRAA
IRCH SUBROMA1H	GRAA
IRCH SUBROMA2H	GRAA
IRCH SUBROMA3H	GRAA
IRCH SUBROMA4H	GRAA
IRCH R(PARTPCCLASS)H	IRCB
IRCH R(ICCLASS)H	DAPJ(2), IRCB
IRCH R(KCLASS)H	IRCB
IRCH R(MUL:ASHC+MFP)H	IRCB
IRCH R(MFP+MTP)H	IRCC
IRCH R(ROR·B+MUL)H	IRCC
IRCH DIV+ASHCH	GRAA
IRCH SXTH	GRAA
IRCH CB(1)H	DAPJ, PDRD
IRCH MATCH	
IRCH C(Ø)H	GRAA, IRCH
IRCH C(1)H	GRAA, GRAJ, IRCF, RACF
PDRA BRMXØØH	DAPA, IRCA, PDRB, RACJ
PDRA BRMXØ1H	DAPA, IRCA, PDRB, RACJ
PDRA BRMXØ2H	DAPA, IRCA, PDRB, RACJ

DESTINATION

[illegible]

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PDRB(2), PDRC, PDRD, PDRE, PDRF
PDRB(2), PDRC, PDRD, PDRE, PDRF
PDRB(2), PDRC, PDRD, PDRE, PDRF
PDRB(2), PDRC, PDRD, PDRE, PDRF
PDRB(2), PDRC, PDRD, PDRE, PDRF
PDRB(2), PDRC, PDRD, PDRE, PDRF
PDRB(2), PDRC, PDRD, PDRE, PDRF
PDRB(2), PDRC, PDRD, PDRE, PRRF
PDRB(2), PDRC, PDRE, PDRF
PDRB(2), PDRC, PDRD, PDRE, PDRF
PDRB(2), PDRC, PDRD, PDRE, PDRF
```

SOURCE

PDRB	BR11AH
PDRB	BR12AH
PDRB	BR13AH
PDRB	BR14AH
PDRB	BR15AH
PDRB	LR00H
PDRB	LR01H
PDRB	LR02H
PDRB	LR03H
PDRB	LR04H
PDRB	LR05H
PDRB	LR06H
PDRB	LR07H
PDRB	LR08H
PDRB	LR09H
PDRB	LR10H
PDRB	LR11H
PDRB	LR12H
PDRB	LR13H
PDRB	LR14H
PDRB	LR15H
PDRB	BR00BL
PDRB	BR01BL
PDRB	BR02BL
PDRB	BR03BL
PDRB	BR04BL
PDRB	BR05BL
PDRB	BR06BL
PDRB	BR07BL
PDRB	BR08BL
PDRB	BR09BL
PDRB	BR10BL
PDRB	BR11BL
PDRB	BR12BL
PDRB	BR13BL
PDRB	BR14BL
PDRB	BR14BL
PDRC	PB00(1)H
PDRC	PB01(1)H
PDRC	PB02H
PDRC	PB03H
PDRC	PB04H
PDRC	PB05H
PDRC	PB06H
PDRC	PB07H
PDRC	+3VH
PDRC	SL00(1)H

DESTINATION

[illegible]

SOURCEDESTINATION

PDRC SLØ1(1)H
 PDRC SLØ2H
 PDRC SLØ3H
 PDRC SLØ4H
 PDRC SLØ5H
 PDRC SLØ6H
 PDRC SLØ7H
 PDRC PBCMPH
 PDRC REDZONEH
 PDRC STACKLIMITH

PDRC, PDRE
 PDRC, PDRE
 PDRC, PRRE
 PDRC, PDRE
 PDRC, PDRE
 PDRC, PDRE
 PDRC, PDRE
 TIGB(2)
 TMCD
 TMCD(2)

BUS INTDØ3L
 BUS INTDØ2L
 BUS INTDØ1L
 BUS INTDØØL

PDRD PIRØ9(1)H
 PDRD PIR1Ø(1)H
 PDRD PIR11(1)H
 PDRD PIR12(1)H
 PDRD PIR13(1)H
 PDRD PIR14(1)H
 PDRD PIR15(1)H
 PDRD PIAØØH
 PDRD PIAØ1H
 PDRD PIAØ2H
 PDRD KERNELDATIBH
 PDRD READPSH
 PDRD IBSØØBL
 PDRD PRIORITY=ØH
 PDRD PSCLKH
 PDRD LOADPSH
 BUS INTDØ4L
 PDRD PSØ4(1)H
 PDRD PSØ5(Ø)H
 BUS INTDØ5L
 PDRD PSØ5(1)H
 PDRD PSØ6(Ø)H
 BUS INTDØ6L
 PDRD PSØ6(1)H
 PDRD PSØ7(Ø)H
 BUS INTØ7L
 PDRD PSØ7(1)H
 PDRD PS11(Ø)H
 BUS INTD11L
 PDRD PS11(1)H
 PDRD PS12(Ø)H
 BUS INTD12L

PDRE, TMCB
 PDRE, TMCB
 PDRE, TMCB
 PDRE, TMCA
 PDRE, TMCA
 PDRE, TMCA
 PDRE
 PDRE(2)
 PDRE(2)
 PDRE(2)
 PDRD
 PDRD(2)
 PDRD(2)
 TMCB
 PDRD
 PDRD(2)

 PDRE, TMCB
 PDRD

 PDRE, TMCB
 PDRD, TMCB

 PDRE, TMCB
 PDRD, TMCA, TMCB(2)

 PDRE, TMCB
 GRAC

 GRAB, PDRE

PDP-11/45

SOURCE

DESTINATION

PDRD	PS12(1)H	GRAC, PDRE
PDRD	PS13(0)H	GRAC
BUS	INTD13L	
PDRD	PS13(1)H	PDRE
PDRD	PS14(0)H	GRAC, PDRD, SJBB, TMCC, TMCE
BUS	INTD14L	----
PDRD	PS14(1)H	GRAB, PDRD, PDRE
PDRD	PS15(0)H	GRAB, SSBB
BUS	INTD15L	
PDRD	PS15(1)H	GRAC(2), PDRE, TMCA
PDRF	DISPD00H	PDRH
PDRF	DISPD01H	PDRH
PDRF	DISPD02H	PDRH
PDRF	DISPD03H	PDRH
PDRF	DISPD04H	PDRH
PDRF	DISPD05H	PDRH
PDRF	DISPD06H	PDRH
PDRF	DISPD07H	PDRH
PDRF	DISPD08H	PDRH
PDRF	DISPD09H	PDRH
PDRF	DISPD10H	PDRH
PDRF	DISPD11H	PDRH
PDRF	DISPD12H	PDRH
PDRF	DISPD13H	PDRH
PDRF	DISPD14H	PDRH
PDRF	DISPD15H	PDRH
PDRF	DISPS16	PDRF
PDRF	DISPS0L	PDRF
BUS	INTD00L	PDRA
BUS	INTD01L	PDRA
BUS	INTD02L	PDRA
BUS	INTD03L	PDRA
BUS	INTD04L	PDRA
BUS	INTD05L	PDRA
BUS	INTD06L	PDRA
BUS	INTD07L	PDRA
BUS	INTD08L	PDRA
BUS	INTD09L	PDRA
BUS	INTD10L	PDRA
BUS	INTD11L	PDRA
BUS	INTD12L	PDRA
BUS	INTD13L	PDRA
BUS	INTD14L	PDRA
BUS	INTD15L	PDRA
PDRH	DISPDATASEL0H	PDRF
PDRH	DISPDATASEL1H	PDRF
PDRH	SWR00H	PDRH

SOURCEDESTINATION

PDRH SWR01H
 PDRH SWR02H
 PDRH SWR03H
 PDRH SWR04H
 PDRH SWR05H
 PDRH SWR06H
 PDRH SWR07H
 PDRH SWR08H
 PDRH SWR09H
 PDRH SWR10H
 PDRH SWR11H
 PDRH SWR12H
 PDRH SWR13H
 PDRH SWR14H
 PDRH SWR15H

PDRH
 PDRH
 PDRH
 PDRH
 PDRH
 PDRH
 PDRH
 PDRH
 PDRH
 PDRH
 PDRH
 PDRH
 PDRH
 PDRH
 PDRH

PDRJ D00H
 PDRJ D01H
 PDRJ D02H
 PDRJ D03H
 PDRJ D04H
 PDRJ D05H
 PDRJ D06H
 PDRJ D07H
 PDRJ D08H
 PDRJ D09H
 PDRJ D10H
 PDRJ D11H
 PDRJ D12H
 PDRJ D13H
 PDRJ D14H
 PDRJ D15H

PDRA
 PDRA
 PDRA
 PDRA
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 PDRA
 PDRA

RACA ZAPL
 RACA CLKRARH
 RACA CLKARARH
 RACA UDRX00H
 RACA ~~UDRX01H~~ UDRX01H
 RACA USRX00H
 RACA USRX01H
 RACA UBRXH
 RACA UBRXH
 RACA UCCL00H
 RACA UCCL01H
 RACA UCCL02H
 RACA UDRK00H
 RACA UDRK01H
 RACA USRKH

RACC, RACD
 RACC(2)
 RACD
 GRAC
 GRAC
 GRAC
 GRAC
 PDRA
 DAPA, UBCB(2)
 IRCF
 IRCF, IRCH
 IRCF
 GRAB(2), GRAD(2), GRAE, GRAF, GRAH
 GRAB(2), GRAD(2), GRAE, GRAF, GRAH
 GRAD

SOURCEDESTINATION

RACA RARB02H
 RACA RARB03H
 RACA RARB04H
 RACA RARB05H
 RACA RARB06H
 RACA RARB07H
 RACA +3VH
 RACA UIRKH
 RACA UIRKAH
 RACA USHF00H
 RACA USHF01H
 RACA UP CB00H
 RACA UP CB01H
 RACA UPCA H

RACB
 RACB
 RACB
 RACB
 RACB
 RACB
 RACA, RACB, RACC(3), RACD
 IRCA
 RACJ
 GRAA, RACJ
 GRAA
 DAPJ(2)
 DAPJ(2)
 DAPJ

RACB ROM46H
 RACB ROM47H
 RACB ROM40BL
 RACB ROM40H
 RACB UPAD00H
 RACB UPAD01H
 RACB UPAD02H
 RACB UPWE00H
 RACB UPWE01H
 RACB ROM32H
 RACB ROM33H
 RACB ROM34H
 RACB UIBS00H
 RACB UIBS01H
 RACB UBAX00H
 RACB UBAX01H
 RACB UBSD00H
 RACB UBSD01H

RACA
 RACA
 TIGA
 RACB
 GRAC(2)
 GRAC(3)
 GRAC(2)
 GRAC(2)
 DAPJ, GRAB, GRAC
 RACC
 RACC
 RACC
 IRCE, PDRD, TMCF(2)
 IRCE, PDRD(4), TMCF
 DAPB, TMCC
 DAPB
 TIGA(2), TMCE
 RACA, TIGA, TMCC(2), TMCD, TMCE,
 UCB(2)
 RACC

RACB CLKRBR(34:28)H

RACC USHC00H
 RACC USHC00H
 RACC RARB00H
 RACC RARB01H
 RACC RARB04H
 RACC RARB05H
 RACC RARB06H
 RACC UMSC00L
 RACC UMSC00H
 RACC UMSC01H
 RACC UMSC02H

GRAJ(2)
 GRAJ
 RACA, RACB
 RACA, RACB
 RACD
 RACD
 RACD
 TMCE(2)
 TMCE
 TMCE(2)
 TMCE(3)

SOURCEDESTINATION

RACC	UBCT00H	TMCC(2), TMCE, TMCf, UBCB, UBCF
RACC	UBCT01H	TMCC(2), TMCE, UBCB, UBCF
RACC	UBCT02H	TMCC(2), TMCE, UBCB, UBCE, UBCF
RACC	USHC01H	GRAJ(2)
RACC	RAR07H	RACD
RACC	UBMX01H	DAPB, DAPD
RACC	UAMX00H	DAPB
RACC	UAMX01H	DAPB
RACC	UBSC00H	RACH, TMCC, TMCE(2)
RACC	UBSC01H	RACH, TMCC, TMCE(2)
RACC	UBSC02H	RACH, TMCC, TMCE(3)
RACC	UALU0H	GRAA, IRCH(3), RACC
RACC	UALU1H	GRAA, IRCH(2), RACC
RACC	UALU2H	GRAA, IRCH(3), RACC
RACC	UKMX00H	DAPC, DAPD, DAPE
RACC	UKMX01H	DAPD, DAPE
RACC	UBMX00H	DAPB, DAPD
RACD	UAFENL	RACL
RACD	UBFENL	RACL
RACD	UCFENL	RACL
RACD	ROM15H	RACC
RACD	UBEFA00L	RACK(2)
RACD	UBEFB01L	RACK
RACD	UBEFB00L	RACK
RACD	UBEFA01L	RACK(2)
RACD	UBEF02L	RACK, RACL
RACD	UBEF03L	RACK(3), RACL
RACD	UBEF03H	RACK
RACD	UADR04L	RACL
RACD	UADR05L	RACL
RACD	UADR06L	RACL
RACD	UADR07L	RACL
RACD	RAR00H	PDRC, PDRF
RACD	RAR01H	PDRC, PDRF
RACD	RAR02H	PDRC, PDRF
RACD	RAR03H	PDRC, PDRF
RACD	RAR04L	PDRC, PDRF
RACD	RAR05L	PDRC, PDRF
RACD	RAR06L	PDRC, PDRF
RACD	RAR07L	RACL
RACD	RAR00H	PDRC, PDRF
RACD	RAR01H	PDRC, PDRF
RACD	RAR02H	PDRC, PDRF
RACD	RAR03H	PDRC, PDRF
RACD	RAR04H	PDRC, PDRF
RACD	RAR05H	PDRC, PDRF
RACD	RAR06H	PDRC, PDRF

SOURCEDESTINATION

RACD	RARØ7H	PDRC, PDRF
RACD	RARAØ3H	RACC
RACED	RARAØ2H	RACC
RACD	RARAØ1H	RACC
RACD	RARAØØH	RACC
RACD	UADRØØL	RACL
RACD	UADRØ1L	RACL
RACD	UADRØ2L	RACL
RACD	UADRØ3L	RACL
RACE	JMP+JSR+SWABH	RACE, RACH
RACE	BF1=ØL	RACE(3), RACF, RACH(3)
RACE	SMØL	RACH(2)
RACE	BIN*SMØH	RACF, RACH
RACE	BF3=5L	RACF
RACE	(MUL:ASH+MFP)H	----
RACE	BF2=5L	RACH
RACE	RCLASSH	RACE, RACH
RACE	AØRABØ2L	RACL
RACE	AØRABØ1L	RACL
RACE	AØRABØØL	RACL
RACE	BF2=4L	RACE
RACE	+3VH	RACE(3), RACF(3)
RACE	BF1=7L	RACF, RACH(3)
RACE	BINL	RACF, RACH
RACE	AØRABØ5L	RACL(2)
RACE	BRINSTH	RACH(4)
RACE	AØRABØ4L	RACL(3)
RACE	AØRABØ3L	RACL
RACF	XCLASSH	RACF
RACF	(RTS:CCOP)H	----
RACF	UCLASSH	RACE
RACF	IR(11:8)ØL	RACF
RACF	(HALT:OPCODE7)H	RACE
RACF	BFØ1=ØL	RACF
RACF	A1RABØ5L	RACL
RACF	A1RABØ2L	RACL
RACF	A1RABØ1L	RACL
RACF	A1RABØØL	RACL
RACF	TRUE2H	RACH
RACF	TRUE1H	RACH(2)
RACF	A2RABØ5L	RACL
RACF	A2RABØ3L	RACL
RACH	A2RABØ1L	RACL
RACH	A2RABØ2L	RACL
RACH	BF2=7L	RACF

SOURCEDESTINATION

RACH DF7L
 RACH DF7+BRQH
 RACH DMØL
 RACH DMØH
 RACH AØRABØ7L
 RACH NEGB*DMØH
 RACH BIN*(-SMØ1)L
 RACH PSWABH
 RACH AFIRØ9A(Ø)H
 RACH AFIRØ9A(1)H
 RACH AFIR1ØA(Ø)H
 RACH AFIR1ØA(1)H
 RACH +3VH
 RACH BUSTH
 RACH TCLASSL
 RACH A1RABØ4L
 RACH A2RABØØL

 RACE, RACF
 RACF, RACH(2)
 RACE, RACF, RACH
 RACL
 RACH
 RACF
 RACE, RACH
 RACE(2), RACF(2)
 RACF(2)
 RACE(2), RACF(2)
 RACF(2)
 RACF(2), RACH(4)
 TIGA, TMCE(2)
 RACE
 RACL
 RACL(2)

RACJ CLKAFIRL
 RACJ AFIRØØ(1)H
 RACJ AFIRØØ(Ø)H
 RACJ AFIRØ1(1)H
 RACJ AFIRØ1(Ø)H
 RACJ AFIRØ2(1)H
 RACJ AFIRØ2(Ø)H
 RACJ AFIRØ3(1)H
 RACJ AFIRØ3(Ø)H
 RACJ AFIRØ4(1)H
 RACJ AFIRØ4(Ø)H
 RACJ AFIRØ5(1)H
 RACJ AFIRØ5(Ø)H
 RACJ AFIRØ6(1)H
 RACJ AFIRØ6(Ø)H
 RACJ AFIRØ7(1)H
 RACJ AFIRØ7(Ø)H
 RACJ BUFARIRØ8(1)H
 RACJ ARIRØ8(Ø)H
 RACJ ARIRØ8(1)H
 RACJ AFIRØ9(Ø)H
 RACJ AFIRØ9(1)H
 RACJ AFIR1Ø(Ø)H
 RACJ AFIR1Ø(1)H
 RACJ BUFAFIR11(1)H
 RACJ ARIR11(Ø)H
 RACJ ARIR11(1)H
 RACJ ARIR12(Ø)H
 RACJ ARIR12(1)H
 RACJ ARIR13(Ø)H

RACH
 RACF, RACH

 RACF, RACH

 RACF, RACH

 RACF(3)
 RACE, RACH
 RACF(2)
 RACE, RACF(2), RACH
 RACF
 RACE, RACF(4), RACH(2)
 RACE(3), RACF, RACH
 RACE(3), RACH(2)
 RACF, RACH
 RACE, RACF(4), RACH(3)
 RACE, RACH(2)
 RACE(2), RACF, RACH
 RACE(2), RACF, RACH
 RACE(3), RACF(2)
 RACE, RACF, RACH(2)
 RACE(3), RACF, RACH
 RACE, RACF(2), RACH(2)
 RACE(2), RACF(2), RACH
 RACE(2), RACF, RACH(3)
 RACE(3), RACF, RACH(2)
 RACE(3), RACF
 RACE(4)
 RACE(3), RACF

SOURCEDESTINATION

RACJ ARIR13(1)H
 RACJ ARIR14(Ø)H
 RACJ ARIR14(1)H
 RACJ ARIR15(Ø)H
 RACJ ARIR15(1)H

RACE(4)
 RACE(3), RACF
 RACE(4)
 RACE(3), RACF(3)
 RACE, RACF(2), RACH

RACK BRCABØ5L
 RACK +3V
 RACK FPREQH
 RACK SYNCBRC1Ø(1)H
 RACK BRCABØ4L
 RACK BEF(1:Ø)1H
 RACK BEF(3:2)3H
 RACK BEF(1:Ø)ØH
 RACK BRCABØØL
 RACK BRCABØ1L
 RACK BRCABØ2L
 RACK BRCABØ6L
 RACK BRCABØ7L

RACL
 RACK
 RACK
 RACK(2)
 RACL
 RACL
 RACK, RACL(2)
 RACK, RACL
 RACL
 RACL
 RACL
 RACL
 RACL

RACL RADRØØH
 RACL RADRØ1H
 RACL RADRØ2H
 RACL RADRØ3H
 RACL RADRØ4H
 RACL RADRØ5H
 RACL RADRØ6H
 RACL RADRØ7H
 RACL +3VH

RACC, RACD
 RACC, RACD
 RACA, RACD
 RACA, RACD
 RACA, RACC, RACD
 RACA, RACC, RACD
 RACA, RACC, RACD
 RACA, RACC, RACD
 RACL

SJBB (SSRKK11CFast(1)L)
 SJBB (SSRDMEMMGMTTRAPL)
 SJBB (SSRBENABLET3DLYH)
 SJBB (SSRAPSTORE(1)H)

TMCD
 TMCA
 TIGA, TIGB
 PDRD, RACK

TIGA ROM4ØH
 TIGA CONTH
 TIGA STOPL
 TIGA MEMSYNCH
 TIGA T1(1)H
 TIGA TIMATH
 TIGA +3VA
 TIGA TISYNCH(1)H
 TIGA TIA(1)H
 TIGA TIA(Ø)H
 TIGA CONT(Ø)H
 TIGA T2(Ø)H
 TIGA +3VE
 TIGA T2A(1)H

TIGA
 TIGA(2)

 TIGA(4), TIGB, TIGE

 TIGA(3)
 TIGA
 TIGC
 TIGA, TIGC
 TIGA(2)
 TIGA(2)
 TIGA(3)
 TIGA, TIGC, TIGE

SOURCEDESTINATION

TIGA	T2A(Ø)H	TIGC
TIGA	SØ(1)H	TIGA(2)
TIGA	S1(1)H	TIGA(2)
TIGA	STOPT3L	----
TIGA	T3(1)H	TIGC, TIGE
TIGA	T3(Ø)H	TIGC
TIGA	UBSDØ1L	TIGA
TIGA	+3VM	TIGA(4)
TIGA	STOPT1L	TIGA
TIGA	T4(1)H	TIGA, TIGB, TIGC, TIGE
TIGA	T4(Ø)H	TIGA, TIGC
TIGA	T5(1)H	TIGA
TIGA	T5(Ø)H	TIGA
TIGA	UBSDØØH	TIGA(2)
TIGA	UBSDØ1H	TIGA, TIGB
TIGA	+3VN	TIGA(4)
TIGA	T1(1)BL	TIGA
TIGA	ROMINITBL	TIGA, TIGE
TIGA	ROMINITAL	TIGA(2)
TIGA	T5A(1)H	TIGC, TIGE
TIGA	T5A(Ø)H	TIGA, TIGC
TIGB	XTALH	TIGB(3)
TIGB	RCL	----
TIGB	RCH	TIGB(3)
TIGB	PBSYNCHH	----
TIGB	SSRMATH	----
TIGB	SINGLECYL	TIGA
TIGB	ROM+UPB(1)H	TIGA
TIGB	CONTL	TIGA
TIGB	SOURCECLOCKL	----
TIGB	+3VK	TIGB(2)
TIGB	+3VJ	TIGB
TIGB	+3VH	TIGB
TIGB	CLOCKH	TIGC, TIGD
TIGB	CLOCKL	TIGC, TIGD
TIGC	TFRL	----
TIGC	TFL	TMCC
TIGC	TPBL	TIGA(6), TIGB
TIGC	TFRH	----
TIGC	TFH	GRAC, IRCH, UBCB
TIGC	TPBH	TIGA(5), TIGE
TIGC	TIBRL	----
TIGC	TIRL	----
TIGC	TIBL	GRAD, RACB, RACC, RACK, UBCA, UBCB
TIGC	TIL	DAPA
TIGC	TIBRH	----
TIGC	TIRH	----

<u>SOURCE</u>	<u>DESTINATION</u>
TIGC TIBH	RACB(2), RACK, RACJ, UBCB, UBCC, UBCD
TIGC TIH	DAPJ, GRAB(2), GRAD, IRCA
TIGC T2BRL	----
TIGC T2RL	----
TIGC T2BL	----
TIGC T2L	RACA, TMCD
TIGC T2BRH	----
TIGC T2RH	----
TIGC T2BH	----
TIGC T2H	UBCB
TIGD T3BRL	----
TIGD T3RL	----
TIGD T3BL	----
TIGD T3L	GRAD, GRAJ, RACA, TMCE
TIGD T3BRH	----
TIGD T3RH	----
TIGD T3BH	UBCA(2)
TIGD T3H	PDRJ, UBCB
TIGD T4BRL	----
TIGD T4RL	----
TIGD T4BL	----
TIGD T4L	----
TIGD T4BRH	----
TIGD T4RH	----
TIGD T4BH	PDRD(3)
TIGD T4H	GRAC, TMCC
TIGD T5BRL	----
TIGD T5RL	----
TIGD T5BL	----
TIGD T5L	GRAJ, UBCA
TIGD T5BRH	----
TIGD T5RH	----
TIGD T5BH	IRCH, PDRD, UBCD
TIGD T5H	DAPJ, GRAC, TMCD
TIGE TS1L	----
TIGE TS2L	RACA, TMCC, UBCA, UBCB
TIGE TS3L	TMCC, UBCB
TIGE TS4L	UBCA, UBCC
TIGE TS5L	TMCD, TMCE

SOURCEDESTINATION

TMCA	SEGTFI	TMCA
TMCA	CLRCONFL	----
TMCA	CONF (0) H	TMCA, TMCB
TMCA	CONF (1) H	RACK, TMCB (2), UBCF
TMCA	INHBELOWPIR4L	TMCB
TMCA	BLOCKBR4L	TMCB
TMCA	HONORPIR4L	TMCB (2)
TMCA	HONORBR5L	TMCB, UBCD (2)
TMCA	HONORPIR5L	TMCB (2)
TMCA	INHBELOWBR6L	TMCB
TMCA	HONORBR6L	TMCB, UBCD (2)
TMCA	HONORPIR6L	TMCB (2)
TMCA	HONORBR7L	TMCB, UBCD (2)
TMCA	ABOVEBR7L	TMCB
TMCA	BLOCKLEV7L	----
TMCA	HONORPIR7L	TMCB (2)
TMCA	SEG+CONL	TMCB
TMCA	HONORFPTRAPL	TMCB (4)
TMCA	HONORPWRFL	TMCB (2), TMCC, UBCC, UBCE
TMCA	HONORSLYH	TMCB (2), TMCC
TMCA	HONORSEGTH	TMCB
TMCA	SEGACKNL	----
TMCB	CLRINTRFL	UBCC
TMCB	TOKL	DAPE, TMCB
TMCB	FPTRAPL	DAPE
TMCB	BRQ*-(T+CONF) L	RACK
TMCB	BRQTRUEH	RACE, RACH, TMCB
TMCB	HONORTL	TMCB
TMCB	BRQTRUEL	RACH, RACK, TMCB
TMCB	PF (0) * (SF+-TF) H	RACK
TMCB	PF (0) * (SF+TF) H	RACK
TMCB	FPACKNL	----
TMCB	HONORFPTRAPH	----
TMCB	HONORPWRFH	TMCC
TMCB	HONORPIR1L	TMCB (2)
TMCB	HONORPIR2L	TMCB (2)
TMCB	HONORPIR3L	TMCB (2)
TMCB	HONORPIR4L	TMCB, UBCD (2)
TMCB	PIRQL	DAPE, UBCC
TMCB	TRAPINHL	IRCD, TMCB
TMCB	PWRFL	DAPE
TMCB	SEGTL	DAPE, TMCB
TMCB	BLOCKLEV2L	TMCB
TMCB	BLOCKLEV3L	TMCB
TMCB	BLOCKLEV5L	TMCA
TMCB	BLOCKLEV6L	TMCA
TMCB	BLOCKLEV7L	----

SOURCE

TMCC TS2CLKH
 TMCC TS3CLKAH
 TMCC TS3CLKH
 TMCC BCTØ1BL
 TMCC KERNALR6 (Ø) H
 TMCC KERNALR6 (1) H
 TMCC SERF (Ø) H
 TMCC SERF (1) H
 TMCC SERFMATH
 TMCC STROBEINHL
 TMCC BLOCKSTROBE (1) H
 TMCC ABORTCLRL
 TMCC ABORTH
 TMCC BUSERRORL
 TMCC +3VH
 TMCC CLKFLAGSH
 TMCC FREECLK (Ø) H
 TMCC FREECLK (1) H
 TMCC ACCLEARL
 TMCC AERF (Ø) H
 TMCC AERF (1) H
 TMCC AERFMATH
 TMCC PRIORITYCLRL
 TMCC INIT+ACKNL
 TMCC SEGABORTED (1) H
 TMCC ODDADRSERRL

TMCD BAMXØ5BH
 TMCD YELZONEH
 TMCD SLREDL
 TMCD GETOFFL
 TMCD SWADRSBL
 TMCD SWADRSL
 TMCD INTERNALADRS
 TMCD SLYEL (1) H
 TMCD +3VH
 TMCD LOBYTEENH
 TMCD HIBYTEENH
 TMCD PIRADRS
 TMCD PBADRS
 TMCD PSADRS
 TMCD SLADRS
 TMCD CLKLRH
 TMCD DMXS1H
 TMCD DMXSØH

TMCE SETCONFL
 TMCE MSCØ2BL
 TMCE BUSTH

DESTINATION

TMCC, TMCE
 TMCC (3), TMCE, TMCF (2)
 TMCB, TMCF
 TMCE, TMCF
 TMCC
 TMCC, TMCD (3)
 TMCB
 TMCB, TMCC, TMCD (2)

 TMCE
 TMCB, TMCD
 TMCC, TMCF
 RACA, TIGA, UBCA
 TMCC (2), TMCE
 TMCC (5)
 TMCC

 UBCD (2)
 UBCE
 TMCB
 TMCB

 TMCA
 TMCF
 TMCB
 TMCC, UBCB

 TMCD (2)
 TMCD
 TMCC (3), TMCE, UBCB

 PDRH
 TMCD, TMCF
 TMCD (2), UBCC
 TMCA
 TMCB, TMCD (2), TMCE, TMCF
 PDRE
 PDRE
 PDRD
 PDRD
 PDRD (2), UBCC
 PDRD
 PDRB
 PDRE
 PDRE

 TMCE
 TMCC, UBCB

<u>SOURCE</u>		<u>DESTINATION</u>
TMCE	MSCØ1BL	TMCE
TMCE	FLOATINGATTNH	UBCD
TMCE	BUSTOUTL	UBCA
TMCE	BUSTH	UBCA
TMCE	BENDERRL	UBCA
TMCE	SETPRIORITYH	PDRD
TMCE	BENDCLRL	UBCA, UBCB
TMCE	BENDH	----
TMCE	BRQCLKH	TMCA(2), TMCB
TMCE	CLKCONFH	TMCA, TMCC
TMCE	BRQSTROBEH	----
TMCE	PAUSESBL	UBCB(2), UBCC
TMCE	PAUSESL	TMCA, TMCC, TMCD, TMCF
TMCE	PAUSESBL	UBCA(2), UBCB
TMCE	INTRCLRL	UBCB, UBCF(2)
TMCE	PAUSESH	TMCA, TMCC(2), TMCE
TMCE	INTRPAUSEH	UBCD
TMCE	INTRPAUSEL	TMCB, TMCF
TMCE	BUSLONGPAUSEH	UBCA, UBCB
TMCE	+3VH	----
TMCE	BSOP2H	UBCB
TMCE	DATOBUSOPH	----
TMCE	CØH	UBCC
TMCE	C1H	TMCD, UBCB, UBCC
TMCE	BSCØØBL	----
TMCE	BSCØ2BL	----
TMCE	KERNELDATIL	PDRD(3)
TMCE	FCH	DAPD
TMCF	IBSØØBL	TMCF(2)
TMCF	IBSØ1BL	TMCF(2)
TMCF	READSWL	PDRH
TMCF	FPREADL	TMCF
TMCF	GETOFFH	TMCD
TMCF	FASTL	TIGA(2), UBCB(2)
TMCF	MEMH	PDRA
TMCF	SELMEML	----
TMCF	SELINTL	PDRA
TMCF	DDCATTN(1)H	UBCF
TMCF	INDADRSERRH	----
TMCF	INDRUNH	----
UBCA	SSYNRESTARTH	TIGA
UBCA	INTRRESTART(CLOCK)	TIGA
UBCA	PASSIVE(Ø)H	UBCD
UBCA	+3VH	UBCA(3), UBCB(7), UBCC(6)
UBCA	BUSTOUTBH	UBCE
UBCA	SACKBH	UBCD

<u>SOURCE</u>	<u>DESTINATION</u>
UBCA BBSYMATB	----
UBCA BBSYL	UBCA
UBCA UNIBUSRELEASEH	----
UBCA DSACKL	UBCD (2)
UBCA DSACKH	UBCD
UBCA TS2CLKH	UBCB (2), UBCD
UBCA CONTROLOKH	----
UBCA CONTROLOKMATH	----
UBCA TS4CLKH	UBCB, UBCC, UBCF
UBCA GETBUS (1) H	UBCA (2)
UBCA BLPDESKEWH	TIGA, UBCA
UBCA CPBSYBH	SJBB, TMCD (2), UBCC
UBCA DESKEWADRSH	UBCB
UBCA CPBSY (Ø) H	----
UBCA CPBSY (1) H	SJBA (16), UBCC
BUSA BBSYL	----
UBCB PEABORTL PE ABORT L	RACA, TMCC
UBCB BUSTBL	UBCA
UBCB BUSTMATH	----
UBCB CLRDESKEWL	----
UBCB CLRUNIH	UBCA (2)
UBCB NOTUNIH	----
UBCB FASTH	IRCB
UBCB DESKEWCOMP	UBCA
UBCB DESKEWA	UBCB
UBCB DESKEWB	UBCB
UBCB DESKEWC	UBCB
UBCB DESKEWD	UBCB
UBCB DESKEWE	UBCB
UBCB BUSLOADL	----
UBCB BUSLOADH	IRCA, RACJ, UBCB

SOURCEDESTINATION

UBCC	MEMBUSC1L	----
UBCC	MEMBUSCØL	----
BUS	AC1L	----
BUS	ACØL	----
UBCC	CLKSSYNH	PDRC(2), PDRD(3)
UBCC	INTRBL	UBCA, UBCC
UBCC	INTRBH	----
UBCC	INTRF(1)H	----
UBCC	C1BL	UBCB
UBCC	CØBL	----
UBCC	CØBH	----
UBCC	(PWRF+INTR)L	----
BUSA	SSYNL	----
UBCC	C1BH	UBCC
UBCC	DATIL	TMCC
UBCC	DAT1PL	UBCA(2), UBCD
UBCC	DATOL	UBCC(2)
UBCC	DATØBL	UBCC(2)
UBCC	DATØSYNCLRH	UBCB
UBCC	SSYN*C1L	UBCA
UBCC	SSYNBL	UBCA, UBCB(2)
UBCC	SSYNBH	UBCA, UBCB
UBCC	SSYNMATH	----
UBCC	LOBYTEH	PDRC, PDRD
UBCC	CCDATA(1)H	IRCH(2)
UBCC	HIBYTEH	PDRC, PDRD(2)
UBCD	+3VH	UBCD(5)
UBCD	LONGSACKL	UBCA
UBCD	EXTBRQH	TIGA
UBCD	EXTBRQL	TMCB
UBCD	NOSACK(1)L	UBCD
UBCD	SERVICEBR(Ø)H	UBCD
UBCD	NPR(1)H	UBCA
UBCD	NPRRQL	UBCD
UBCD	GRANTCLKL	UBCD
UBCD	GRANTBRH	UBCA
UBCD	GRANTL	UBCD(3)
UBCD	GRANTCLRL	UBCD
UBCD	NPG(Ø)H	UBCD
UBCD	PROCNPGH	----
UBCD	NPG(1)H	UBCA
UBCD	FP ATTN H	----
UBCD	FP ATTN L	----
UBCD	GRANT BR(Ø)H	UBCA
UBCD	PROC BG4 H	----
UBCD	PROC BG5 H	----
UBCD	PROC BG6 H	----
UBCD	PROC BG7 H	----

<u>SOURCE</u>	<u>DESTINATION</u>
UBCE +3V 1+	UBCE(5)
UBCE ACLO BL	UBCD
UBCE ALLOW UP(1)H	UBCD
UBCE PF CLR(1)L	TMCA
UBCE FP CLR(1)H	UBCE(2)
UBCE PDNF(1)H	TMCA, UBCE
UBCE PUPF(1)H	TMCB, UBCE
UBCE DCLO BL	TMCA, UBCE, UBCF
BUSA DC LO L	UBCE
UBCE DC LO BH	UBCE(3)
UBCE STATUS CLR L	PDRD
UBCE START INIT L	TMCA
UBCE INIT H	IRCH, TMCD, UBCB
UBCE ROM INIT H	RACA(2), RACC, TIGA
BUSA INIT L	----
UBCE INIT L	GRAJ, TMCB, TMCC(3), TMCF, PDRD,
	PDRB, UBCA, UBCB(3), UBCB(5),
	UBCF(2), UBCH
	PDRD, PDRD, TMCA
	RACK

UBCE INT BUS INIT L	
UBCE RIP+FP SYNC L	
UBCE FP SYNC H	

UBCF STOP H	----
UBCF DDC LD ADRS L	----
UBCF START H	UBCE(2), UBCF
UBCF DDC STOP L	TMCF, UBCF
UBCF LAS L	----
UBCF BEGIN H	----
UBCF CLR CONTROL REG L	UBCF
UBCF CLKLA H	----
UBCF CNSLØ7(Ø)H	UBCH
UBCF CNSLØ7(1)H	RACK
UBCF CONT(Ø)H	UBCH(3)
UBCF CONT(1)H	TMCA
UBCF CLR START L	----
UBCF START(Ø)H	UBCH(2)
UBCF REG DEP(Ø)H	UBCH(2)
UBCF +3V H	UBCF(2)
UBCF DEPOS (Ø)H	----
UBCF DEPOS (1)H	UBCH(2)
UBCF REG EXAM (Ø)H	UBCH
UBCF REG EXAM (1)H	----
UBCF EXAM (Ø)H	----
UBCF EXAM (1)H	UBCH
UBCF ACKN LEVEL H	UBCH
UBCF ACKN T4L	UBCF(2)
UBCF DISABLE NPR H	UBCD
UBCF STOP L	----
UBCF S/INST L	TMCA

<u>SOURCE</u>	<u>DESTINATION</u>
UBCF DDC ATTN L	----
UBCF CNSL RESET L	TMCE, UBCE
UBCF CNSL ACT (0)H	GRAB(2), TIGB, TMCC(2)
UBCF CNSL ACT (1)H	GRAC(2), RACK, TMCF
UBCH STEP DEPOSIT 2L	----
UBCH MICRO AD0H	----
UBCH MICRO AD1H	----
UBCH MICRO AD2H	----
UBCH CNSL00 H	RACK
UBCH CNSL01 H	RACK
UBCH CNSL02 H	RACK
UBCH STRB FTN H	TMCA
UBCH EXAM+STEP EXAM H	UBCH
UBCH STEP DEP L	----
UBCH DEP L	----
UBCH STEP DEP+DEP H	UBCH
UBCH STEP DEP+DEP L	UBCH
UBCJ IND PAUSE H	----
UBCJ IND MASTER H	----
UBCJ HALT SW H	TIGB, UBCE, UBCF(2)
UBCJ DEP SW H	UBCF
UBCJ DISP ADRS SEL2 H	----
UBCJ REG DEP SW H	UBCF
UBCJ EXAM SW H	UBCF
UBCJ REG EXAM SW H	UBCF
UBCJ START SW H	UBCF
UBCJ LOAD ADRS SW H	UBCF
UBCJ SINGLE CYCLE SW H	TIGB, UBCF
UBCJ CONT SW H	UBCF
UBCJ PNL LOCK H	----
UBCJ DISP ADRS SEL1H	MEMORY
UBCJ DISP ADRS SEL0H	MANAGEMENT

SOURCE

DAPA BR00H
 DAPA BR01H
 DAPA BR02H
 DAPA BR03H
 DAPA BR04H
 DAPA BR05H
 DAPA BR06H
 DAPA BR07H
 DAPA BR08H
 DAPA BR09H
 DAPA BR10H
 DAPA BR11H
 DAPA BR12H
 DAPA BR13H
 DAPA BR14H
 DAPA BR14L
 DAPA BR15H

DAPB AMX00H
 DAPB AMX01H
 DAPB AMX02H
 DAPB AMX03H
 DAPB AMX04H
 DAPB AMX05H
 DAPB BAMX00H
 DAPB BAMX01H
 DAPB BAMX02H
 DAPB BAMX03H
 DAPB BAMX04H
 DAPB BAMX05H
 DAPB BAMXS0L
 DAPB BAMXS1L
 DAPB BMX00H
 DAPB BMX01H
 DAPB BMX02H
 DAPB BMX03H
 DAPB BMX04H
 DAPB BMX05H
 DAPC AMX06H
 DAPC AMX07H
 DAPC AMX08H
 DAPC AMX09H
 DAPC AMX10H
 DAPC AMX11H
 DAPC BAMX06H
 DAPC BAMX07H
 DAPC BAMX08H
 DAPC BAMX09H

DESTINATION

DAPB DAPE IRCF IRCH
 DAPB DAPE IRCE IRCH
 DAPB DAPE IRCF IRCH
 DAPB DAPE IRCF IRCH
 DAPB DAPE
 DAPB DAPE
 DAPC DAPE
 DAPC DAPD DAPE
 DAPC
 DAPC
 DAPC
 DAPC
 DAPD
 DAPD
 DAPD
 DAPD
 RACK
 DAPD

DAPF GRAA IRCE
 DAPF
 DAPF
 DAPF
 DAPF
 DAPF
 ADME SCCA SSRH TMCC
 ADME SAPH SCCA
 ADME SAPH SCCA
 ADME SAPH SCCA
 ADME SAPH SCCA SSRH
 ADME SAPH SCCA SSRH
 DAPC DAPD
 DAPC DAPD
 DAPF
 DAPF
 DAPF
 DAPF
 DAPF
 DAPF
 DAPF
 DAPF IRCE
 DAPH
 DAPH
 DAPH
 DAPH
 SAPH SCCA SSRH TMCD
 SAPH SCCA SSRH TMCD
 PDRC SAPH SCCA SSRH
 PDRC SAPH SCCA SSRH

SOURCE

DAPC BAMX10H
 DAPC BAMX11H
 DAPC BMX06H
 DAPC BMX07H
 DAPC BMX08H
 DAPC BMX09H
 DAPC BMX10H
 DAPC BMX11H

DAPD AMX12H
 DAPD AMX13H
 DAPD AMX14H
 DAPD AMX15H
 DAPD BAMX12H
 DAPD BAMX13H
 DAPD BAMX14H
 DAPD BAMX15H
 DAPD BMX12H
 DAPD BMX13H
 DAPD BMX14H
 DAPD BMX15H
 DAPD BMXS0 HIB L
 DAPD BMXS1 HIB L
 DAPD K0EX H
 DAPD K0MX00 BL
 DAPD K0MX00 H
 DAPD K0MX01 BL
 DAPD K0MX01 H
 DAPD K0MX02 BL
 DAPD K0MX02 H
 DAPD K0MX03 BL
 DAPD K0MX03 H
 DAPD EXMEM FLAG H

DAPE K1MX01 H
 DAPE K1MX02 H
 DAPE K1MX03 H
 DAPE K1MX04 H
 DAPE K1MX05 H
 DAPE K1MX06 H
 DAPE K1MX07 H
 DAPE K1EX H
 DAPE SV02 H
 DAPE SV03 H
 DAPE SV04 H
 DAPE SV05 H
 DAPE SV06 H
 DAPE SV07 H
 DAPE TV01 H
 DAPE TV02 H
 DAPE TV03 H

DESTINATION

PDRC SAPH SCCA SSRH
 PDRC SAPH SCCA SSRH
 DAPF
 DAPF IRCE
 DAPH
 DAPH
 DAPH
 DAPH

DAPH
 DAPH
 DAPH
 DAPH DAPJ IRCE
 PDRC SAPH SCCA SSRH
 DAPD PDRC SAPH SAPK(2)
 DAPD PDRC SAPH SAPK(2)
 DAPD PDRC SAPH SAPK(2)
 DAPH
 DAPH
 DAPH
 DAPH IRCE
 DAPC DAPD
 DAPC DAPD
 DAPC(2) DAPD(2)
 SSRF
 DAPB
 SSRF
 DAPB
 SSRF
 DAPB
 SSRF
 DAPB

DAPB
 DAPB
 DAPB
 DAPB
 DAPB
 DAPB DAPC
 DAPC
 DAPC(3) DAPD(2)
 DAPE
 DAPE
 DAPE
 DAPE
 DAPE
 DAPE (2)
 DAPE
 DAPE
 DAPE

SOURCE

DAPE TV04 H
 DAPE TV06 H
 DAPE TV05*TV07

DAPF COUT03 L
 DAPF ALU00 H
 DAPF ALU01 H
 DAPF ALU02 H
 DAPF ALU03 H
 DAPF SHR00 H
 DAPF SHR01 H
 DAPF SHR02 H
 DAPF SHR03 H
 DAPF LM H
 DAPF LS0 H
 DAPF LS1 H
 DAPF LS2 H
 DAPF LS3 H
 DAPF A=B (7:0) H
 DAPF A=B (15:0) L
 DAPF PCB00 H
 DAPF PCB01 H
 DAPF PCB02 H
 DAPF PCB03 H
 DAPF PCB04 H
 DAPF PCB05 H
 DAPF COUT07 L
 DAPF ALU04 H
 DAPF ALU05 H
 DAPF ALU06 H
 DAPF ALU07 H
 DAPF SHFR04 H
 DAPF SHFR05 H
 DAPF SHFR06 H
 DAPF SHFRS0 H
 DAPF SHFRS1 H
 DAPF SHFRS0 BH
 DAPF SHFRS1 BH

DAPH COUT 11L
 DAPH HS0 H
 DAPH HS1 H
 DAPH HS2 H
 DAPH HS3 H
 DAPH ALU08 H
 DAPH ALU09 H
 DAPH ALU10 H
 DAPH ALU11 H
 DAPH SHFR08 H
 DAPH SHFR09 H

DESTINATION

DAPE
 DAPE
 DAPE (2)

DAPF
 DAPH GRAH
 DAPH
 DAPH
 DAPH
 GRAB GRAD PDRA PDRF
 GRAB GRAD PDRA PDRF
 GRAB GRAD PDRA PDRF
 GRAB GRAD PDRA PDRF
 DAPF
 DAPF
 DAPF
 DAPF
 IRCF
 IRCF
 DAPB DAPF
 DAPB DAPF
 DAPB DAPF
 DAPB DAPF
 DAPB DAPF
 DAPB DAPF
 DAPH DAPJ
 DAPF(2) DAPH
 DAPF DAPH
 DAPH (2)
 DAPH DAPJ(3)
 GRAB GRAE PDRA PDRF
 GRAB GRAE PDRA PDRF
 GRAB GRAE PDRA PDRF
 DAPH
 DAPH
 DAPJ
 DAPJ

DAPH
 DAPH
 DAPH
 DAPH
 DAPH
 DAPF DAPJ
 DAPF
 DAPF
 DAPF
 GRAB GRAF PDRA PDRF
 GRAB GRAF PDRA PDRF

SOURCE

DAPH SHFR10H
 DAPH SHFR11H
 DAPH HM H
 DAPH PCB06H
 DAPH PCB07H
 DAPH PCB08H
 DAPH PCB09H
 DAPH PCB10H
 DAPH PCB11H
 BUS A=B(15:8)H
 DAPH COUT15L
 DAPH COUT15H
 DAPH ALU12H
 DAPH ALU13H
 DAPH ALU14H
 DAPH ALU15H
 DAPH SHFR12H
 DAPH SHFR13H
 DAPH SHFR14H
 DAPH PCB12H
 DAPH PCB13H
 DAPH PCB14H
 DAPH PCB15H

DAPJ SHFR07H
 DAPJ SHFRA07H
 DAPJ SHFR15H
 DAPJ SHFRA15H
 DAPJ PCB+RTSHF15H
 DAPJ PCB+RTSHF07H
 DAPJ AMX SIGN H
 DAPJ ALU SIGN H
 DAPJ A=B(15:8)+BYTE H
 DAPJ ALUCN L
 DAPJ LEFT DATA H
 DAPJ CLK PCA H
 DAPJ CLK PCB H

GRAA ROMM H
 GRAA ROMC H
 GRAA ROMSHFS1H
 GRAA ROMSHFS0H
 GRAA ROMS0L
 GRAA ROMS0H
 GRAA ROMS1H
 GRAA ROMS2H
 GRAA ROMS3H
 GRAA UALU0L
 GRAA CINL
 GRAA MODE H

DESTINATION

GRAB GRAF PDRA PDRF
 GRAB GRAF PDRA PDRF
 DAPH
 DAPC DAPF
 DAPC DAPJ
 DAPC DAPH
 DAPC DAPH
 DAPC DAPH
 DAPC DAPH

 DAPJ
 DAPJ
 DAPF DAPH
 DAPF
 DAPF
 DAPJ(3)
 GRAB GRAH PDRA PDRF
 GRAB GRAH PDRA PDRF
 GRAB GRAH PDRA PDRF
 DAPD DAPH
 DAPD DAPH
 DAPD DAPH
 DAPD DAPJ

GRAB GRAE PDRA PDRF
 IRCE IRCF
 GRAB GRAH PDRA PDRF
 IRCF
 DAPJ
 DAPJ
 IRCE
 IRCE
 IRCF
 IRCF
 GRAB GRAD
 DAPF DAPH(2)
 DAPF DAPH(2)

 GRAA

 IRCC
 GRAA
 GRAA

SOURCE

GRAA AMXØ*ASHL
 GRAA OB SWAPL
 GRAA WORD+OB SWAP L
 GRAA WORD+OB SWAP H
 GRAA SWAP L
 GRAA SGNEX MOVB L
 GRAA ALU INSDEP L
 GRAA OB SWAP H
 GRAA CDEP L
 GRAA ALUM L
 GRAA ALUC H
 GRAA SHFRS1L
 GRAA SHFRSØL
 GRAA ALUS3L
 GRAA ALUS2L
 GRAA ALUS1L
 GRAA ALUSØL
 GRAB LEFT SAVE(1)H
 GRAB LEFT SAVE(Ø)H
 GRAB OBD(1)H
 GRAB OBD(Ø)H
 GRAB SRC SET1L
 GRAB DST SET1L
 GRAB Z DATA2L

GRAC PADØØL
 GRAC PLUS1L
 GRAC GRAD ENL
 GRAC DMØ(MFP+MTP)COND H
 GRAC GDA2H
 GRAC GDA1H
 GRAC GSA2H
 GRAC GSA1H
 GRAC ACT*IRØ3L
 GRAC GD6L
 GRAC GDAØH
 GRAC GDREG SET1H
 GRAC GSAØH
 GRAC GSREG SET1H
 GRAC SRMX SEL L
 GRAC DRMX SEL L
 GRAC GRWE HIBL
 GRAC GRWE LOBL
 GRAC DATE T6H
 GRAC T6L
 GRAC GRAØL
 GRAC GRA1L
 GRAC GRA2L
 GRAC GRA3L

DESTINATION

IRCF
 GRAA IRCE
 GRAB IRCE IRCF
 IRCE IRCF
 GRAA
 DAPD
 GRAJ(2)
 GRAB

 DAPF DAPH
 DAPF
 DAPF(2)
 DAPF(2)
 DAPF DAPH
 DAPF DAPH
 DAPF DAPH
 DAPF DAPH
 GRAJ(2)
 GRAJ
 GRAA IRCB
 RACK
 GRAC
 GRAC
 IRCF

GRAC
 GRAC
 GRAC
 GRAC
 GRAC GRAD GRAE GRAF GRAH
 GRAC GRAD GRAE GRAF GRAH
 GRAC GRAD(2) GRAE(2) GRAF GRAH
 GRAC GRAD(2) GRAE(2) GRAF GRAH
 IRCC
~~IRCC~~
 GRAD(2) GRAE(2) GRAF GRAH
 GRAC GRAD(2) GRAE(2) GRAF GRAH
 GRAC GRAD(2) GRAE(2) GRAF GRAH
 GRAD(2) GRAE(2) GRAF GRAH
 GRAD(2) GRAE(2) GRAF GRAH
 GRAD(2) GRAE(2) GRAF GRAH
 GRAF(2) GRAH(2)
 GRAD(2) GRAE
 IRCH
 GRAC ~~IRCH~~
 SSRF
 SSRF
 SSRF
 TMCC SSRF

SOURCE

GRAD GS00L
 GRAD GS01L
 GRAD GS02L
 GRAD GS03L
 GRAD DRMX00H
 GRAD SR00H
 GRAD SR01H
 GRAD SR02H
 GRAD SR03H
 GRAD SR04H
 GRAD SR05H
 GRAD CLKS RH
 GRAD DR00H
 GRAD DR01H
 GRAD DR02H
 GRAD DR03H
 GRAD CLRDRL
 GRAD CLKDRH

GRAE SRMX04H
 GRAE SRMX05H
 GRAE SRMX06H
 GRAE SRMX07H
 GRAE GS04L
 GRAE GS05L
 GRAE GS06L
 GRAE GS07L
 GRAE SR LEQ ZERO H
 GRAE SR EQ ONE L
 GRAE DR04H
 GRAE DR05H
 GRAE DR06H
 GRAE DR07H
 GRAF GS08L
 GRAF GS09L
 GRAF GS10L
 GRAF GS11L
 GRAF DR08H
 GRAF DR09H
 GRAF DR10H
 GRAF DR11H
 GRAF SR06H
 GRAF SR07H
 GRAF SR08H
 GRAF SR09H
 GRAF SR10H
 GRAF SR11H

DESTINATION

 GRAE
 GRAE
 GRAE

 DAPB GRAE (2) IRCC
 DAPB
 DAPB
 DAPB
 DAPB
 DAPB
 GRAE GRAF GRAH
 DAPB GRAJ IRCF RACK (2)
 DAPB GRAJ
 DAPB GRAJ
 DAPB GRAE GRAJ
 GRAE GRAE GRAH
 GRAE GRAF GRAH

GRAD
 GRAD
 GRAF
 GRAF
 GRAE
 GRAE
 GRAE
 GRAE
 GRAJ
 RACK
 DAPB GRAD GRAJ
 DAPB GRAJ
 DAPC
 DAPC GRAF
 GRAE
 GRAE
 GRAE
 DAPC GRAE
 DAPC
 DAPC
 DAPC GRAH
 DAPC
 DAPC DAPD
 DAPC
 DAPC
 DAPC

SOURCE

GRAH GS12L
 GRAH GS13L
 GRAH GS14L
 GRAH GS15L
 GRAH DR12H
 GRAH DR13H
 GRAH DR14H
 GRAH DR15H
 GRAH DR15L
 GRAH SR12H
 GRAH SR13H
 GRAH SR14H
 GRAH SR15H
 GRAH SR15L

GRAJ LDSC L
 GRAJ TP(3:5)H
 GRAJ SCØ4H
 GRAJ SCØ3H
 GRAJ SCØ2H
 GRAJ SCØ1H
 GRAJ SCØØH
 GRAJ SCØ5L
 GRAJ SC=ØL
 GRAJ DIV SUB L
 GRAJ DIV QUIT L
 GRAJ SHFR DATA H

IRCA IRØØ(1)H
 IRCA IRØØ(Ø)H
 IRCA IRØ1(1)H
 IRCA IRØ1(Ø)H
 IRCA IRØ1B(1)H
 IRCA IRØ2(1)H
 IRCA IRØ2(Ø)H
 IRCA IRØ2B(1)H
 IRCA IRØ3(1)H
 IRCA IRØ3(Ø)H
 IRCA IRØ4(1)H
 IRCA IRØ4(Ø)H
 IRCA IRØ5(1)H
 IRCA IRØ5(Ø)H
 IRCA IRØ6(1)H
 IRCA IRØ6(Ø)H
 IRCA IRØ7(1)H
 IRCA IRØ7(Ø)H
 IRCA IRØ8(1)H
 IRCA IRØ8(Ø)H
 IRCA IRØ8B(1)H
 IRCA IRØ9(1)H

DESTINATION

GRAE
 GRAE
 GRAE
 GRAE
 DAPD GRAF
 DAPD
 DAPD
 DAPD IRCF
 GRAA IRCF
 DAPD
 DAPD
 DAPD
 DAPD GRAJ(2) RACK
 GRAE GRAJ(3)

GRAJ
 GRAD GRAJ

 GRAJ(2) RACK
 RACK(2)
 RACK
 RACK
 DAPJ

IRCC IRCD IRCH(2)
 GRAB GRAC IRCD(2)
 GRAB GRAC IRCC IRCD
 GRAB IRCD
 IRCD(2) IRCH(2)
 GRAB GRAC IRCC IRCD
 GRAB IRCD
 IRCD(2) IRCH(2)
 GRAC IRCC IRCH(2)
 IRCC
 IRCC(2) IRCH
 IRCH
 IRCC
 IRCC
 IRCB IRCH
 GRAB GRAC
 GRAB GRAC(2) IRCB IRCC IRCH
 GRAB SSRB
 GRAB GRAC(2) IRCB IRCH
 GRAB IRCD
 IRCC IRCD(2)
 IRCB IRCC IRCH(2)

SOURCE

IRCA IR09(0)H
 IRCA IR10(1)H
 IRCA IR10(0)H
 IRCA IR11(1)H
 IRCA IR11(0)H
 IRCA IR12(1)H
 IRCA IR12(0)H
 IRCA IR13(1)H
 IRCA IR13(0)H
 IRCA IR14(1)H
 IRCA IR14(0)H
 IRCA IR15(1)H
 IRCA IR15(0)H
 IRCA IR15B(1)H

IRCB IR(8:6)0L
 IRCB IR(8:6)1L
 IRCB IR(8:6)2L
 IRCB IR(8:6)3L
 IRCB IR(8:6)4L
 IRCB IR(8:6)6L
 IRCB SRCF7L
 IRCB IR(14:9)00L
 IRCB IR(14:9)04L
 IRCB IR(14:9)05L
 IRCB IR(14:9)06L
 IRCB IR(14:12)0H
 IRCB IR(14:12)0L
 IRCB IR(14:12)1L
 IRCB IR(14:12)7L
 IRCB IR(14:12)7H
 IRCB PART PCLASS L
 IRCB PCLASS H
 IRCB SWAB H
 IRCB MOVH H
 IRCB ICLASS L
 IRCB KCLASS H
 IRCB FCLASS H
 IRCB FJCLASS L
 IRCB JMP+JSR H
 IRCB (MUL:ASH)+MFP L
 IRCB OBD(ASHB+RORB)L
 IRCB IR(8:6)0+2H
 IRCB B0 RAB00L
 IRCB B0 RAB01L
 IRCB B0 RAB02L
 IRCB B0 RAB04L
 IRCB NEG.BL
 IRCB NEG.BH
 IRCB B0 RAB03L
 IRCB B1 RAB00L

DESTINATION

IRCB
 IRCB(2) IRCC IRCH

 IRCB IRCC IRCH
 IRCB IRCH
 IRCB IRCH(2)
 IRCB IRCH(2)
 IRCB IRCD IRCH(3)
 IRCB IRCD IRCH
 IRCB IRCD IRCH(3)
 IRCB IRCH
 IRCD(3) IRCH SSRB
 IRCB IRCC IRCD
 IRCB(4) IRCC IRCD

IRCB IRCD
 IRCB
 IRCB
 IRCB
 IRCB
 IRCC(2)
 IRCC GRAC
 IRCB(2)
 IRCB(2) IRCC IRCD
 IRCB IRCC IRCD
 IRCC IRCD
 IRCB IRCD(2)

 IRCB IRCC
 IRCB
 IRCB IRCC
 IRCC
 GRAJ TMCE

 GRAA
 GRAC GRAJ

 IRCC(2) IRCD(2) IRCE
 RACK RACL

 GRAA IRCB
 IRCB
 RACL
 RACL
 RACL
 RACL(2)
 GRAA IRCB

 RACL(2)
 RACL

SOURCE

IRCC DSTF7L
 IRCC FCLASS
 IRCC SRCMØL.
 IRCC SRCM2L
 IRCC SRCM3L
 IRCC SRCM4L
 IRCC SRCM5L
 IRCC SRCM7L
 IRCC IR(11:9)6H
 IRCC OCLASS H
 IRCC CØ RABØØL
 IRCC CØ RABØ1L
 IRCC CØ RABØ2L
 IRCC CØ RABØ3L
 IRCC OCLASS L
 IRCC ROM DEC ENA H
 IRCC DSTM3L
 IRCC DSTM4L
 IRCC DSTM5L
 IRCC DSTM7L
 IRCC DMØ (MFP+MTP) H
 IRCC MFP+MTP H
 IRCC (ROR. B+MUL) H
 IRCC SRCCON 1H
 IRCC SM357H
 IRCC SRCCON 2H
 IRCC IR(5:3)ØH
 IRCC DSTMØL
 IRCC DSTMØH
 IRCC DSTM2L

IRCD DM357H
 IRCD DYIN*(-MOVBL)
 IRCD WDIN H
 IRCD BYINH
 IRCD SBYNH
 IRCD BYINAH
 IRCD DSTCON 1H
 IRCD DSTF67H
 IRCD DSTCON 2H
 IRCD SMØH
 IRCD DSTM24H
 IRCD IR(8:6)ØH
 IRCD DSTCON 4H
 IRCD DSTCON 1ØH
 IRCD EMTL
 IRCD TRAPL
 IRCD OP CODE3L
 IRCD IOTL
 IRCD RTTL
 IRCD DSTF6H

DESTINATION

DAPJ GRAC IRCD
 IRCC IRCD
 IRCD
 IRCC
 IRCC(2)
 IRCC
 IRCC(2)
 IRCC SSRB
 IRCB IRCD
 TMCE
 RACL
 RACL
 RACL
 RACL
 RACK
 IRCB(3)
 IRCD(2)
 IRCD(2)
 IRCD(2)
 IRCD SSRB
 GRAB GRAC
 SSRB(5)
 DAPJ(2)
 DAPD
 RACL RMCC
 DAPD
 IRCC
 GRAA IRCC IRCD RACL
 IRCC RACL
 IRCD(2) SSRB

RACK
 GRAC
 IRCC IRCD IRCE(2)
 DAPJ(2)-GRAA TMCC TMCE
 IRCC(2)
 IRCD(3) IRCE
 DAPD

 DAPD
 IRCC
 IRCD
 IRCC
 DAPD
 DAPD
 DAPE
 DAPE
 DAPE
 DAPE
 TMCB
 GRAC(2) IRCD

SOURCE

IRCE WOB CARRY H
 IRCE LOB CARRY H
 IRCE VEN2L
 IRCE VEN1L
 IRCE EN HIB H
 IRCE EN LOB H
 IRCE EN WORD H
 IRCE V DATA L
 IRCE LOAD FCC L
 IRCE CC BRH
 IRCE PS LOAD L

IRCF C DATA L
 IRCF CEN2H
 IRCF CCLD7L
 IRCF CCLD67L
 IRCF CCLD6L
 IRCF CCLØØL
 IRCF CCLØ2L
 IRCF CCLD5L
 IRCF CCINSDEP H
 IRCF CCLD4L
 IRCF CCFP LOAD L
 IRCF CCINSDEPA H
 IRCF MUL+DIVNZVEN H
 IRCF NENIH
 IRCF CHECKZH
 IRCF ZINVH
 IRCF BR=-1 SAVE(1)H
 IRCF BR=-1 SAVE(Ø)H
 IRCF Z1(1)H
 IRCF Z1(Ø)H
 IRCF Z2(1)H
 IRCF Z2(Ø)H
 IRCF N DATA L
 IRCF SETVH
 IRCF Z DATA L

IRCH CCCLRH
 IRCH SETCCH
 IRCH CLKINHL
 IRCH SUEL
 IRCH N(1)H
 IRCH N(Ø)H
 IRCH MAT NH
 IRCH NB(1)H
 IRCH BINL
 IRCH SWABL
 IRCH Z SET L
 IRCH Z(1)H

DESTINATION

IRCF
 IRCF
 IRCE

 GRAB
 GRAB
 GRAB
 IRCH
 IRCE IRCF(2)
 IRCE IRCF(2)
 IRCE IRCF(3)

IRCH

 IRCF(2)
 IRCE IRCF
 IRCF(2)
 IRCH
 IRCH
 IRCE(4) IRCF
 IRCE IRCF
 IRCE IRCF
 IRCE
 IRCF
 IRCE IRCF
 IRCE IRCF
 GRAB
 IRCF
 IRCF

 IRCH
 IRCH
 RACH
 GRAB IRCH
 IRCH
 IRCE
 IRCF

IRCF
 IRCH
 IRCH

 GRAA GRAJ IRCF RACF(2) RACK
 GRAJ IRCH RACF

 PDRD
 IRCC IRCH
 GRAA(2) IRCE(2) IRCF
 IRCF
 GRAB IRCF(2) PDRD RACF(2)

SOURCE

DESTINATION

IRCH MATZH
 IRCH Z(Ø)H
 IRCH ZCLRL
 IRCH MATVH
 IRCH V(1)H
 IRCH V(Ø)H
 IRCH MODZNH
 IRCH ENZNH
 IRCH CMOD1H
 IRCH CMODØH
 IRCH ENC H
 IRCH VMOD1H
 IRCH VMODØH
 IRCH ENVA
 IRCH C(1)H
 IRCH C(Ø)H
 IRCH MATCH
 IRCH CB(1)H
 IRCH SXT H
 IRCH DIV+ASHC H
 IRCH R(ROR.B+MUL)H
 IRCH R(MFP+MTP)H
 IRCH R(MUL:ASHC+MFP)H
 IRCH R(KCLASS)H
 IRCH R(ICLASS)H
 IRCH R(PART PCLASS)H
 IRCH SUBROMA4H
 IRCH SUBROMA3H
 IRCH SUBROMA2H
 IRCH SUBROM1H
 IRCH SUBROMØH

 IRCF

 IRCE PDRD RACF(2)
 RACF
 IRCE IRCF(4)
 IRCF
 IRCF
 IRCF(2)
 IRCF
 IRCE(2)
 IRCE
 IRCE
 GRAA GRAJ IRCF RACF
 GRAA IRCH

 DAPJ PDRD
 GRAA
 GRAA
 IRCC
 IRCC
 IRCB
 IRCB
 DAPJ(2) IRCB
 IRCB
 GRAA
 GRAA
 GRAA
 GRAA
 GRAA

KNLA PNL LOCK L
 KNLA PNL LOCK H
 KNLA SWITCHED GROUND

KNLC
 KNLB
 KNLC

KNLB MMRØ MODE 1H
 KNLB IND DATA H
 KNLB MMRØ MODE ØH

KNLD

 KNLD

KNLD DISP ADRS SEL2H
 KNLD DISP ADRS SEL1H
 KNLD DISP ADRS SELØH
 KNLD DISP DATA SELØH
 KNLD DISP DATA SEL1H

KNLC

 KNLA KNLB
 KNLA KNLB

PDRA BRMXØ3H
 PDRA DRMXØ2H

DAPA IRCA PDRB RACJ
 DAPA IRCA PDRB RACJ

PDRA	DRMX01H
PDRA	DRMX00H
PDRA	BRMX07H
PDRA	BRMX06H
PDRA	BRMX05H
PDRA	DRMX04H
PDRA	DRMX11H
PDRA	BRMX10H
PDRA	BRMX09H
PDRA	BRMX08H
PDRA	BRMX15H
PDRA	BRMX14H
PDRA	BRMX13H
PDRA	BRMX12H
PDRA	INTD00H
PDRA	INTD01H
PDRA	INTD02H
PDRA	INTD03H
PDRA	INTD04H
PDRA	INTD05H
PDRA	INTD06H
PDRA	INTD07H
PDRA	INTD08H
PDRA	INTD09H
PDRA	INTD10H
PDRA	INTD11H
PDRA	INTD12H
PDRA	INTD13H
PDRA	INTD14H
PDRA	INTD15H

[illegible]

PDRB LR00H
PDRB LR01H
PDRB LR02H
PDRB LR03H
PDRB LR04H
PDRB LR05H
PDRB LR06H
PDRB LR07H
PDRB LR08H
PDRB LR09H
PDRB LR10H
PDRB LR11H
PDRB LR12H
PDRB LR13H
PDRB LR14H
PDRB LR15H
PDRB BR00AH
PDRB BR01AH
PDRB BR02AH
PDRB BR03AH

PDRF
PDRF
PDRF
PDRF
PDRF
PDRF
PDRF
PDRF
PDRF
PDRF
PDRF
PDRF
PDRF
PDRF
PDRF
PDRB (2) PDRC PDRD PDRE PDRF
PDRB (2) PDRC PDRD PDRE PDRF
PDRB (2) PDRC PDRD PDRE PDRF
PDRB (2) PDRC PDRD PDRE PDRF

PDRB BRØ4AH
PDRB BRØ5AH
PDRB BRØ6AH
PDRB BRØ7AH
PDRB BRØ8AH
PDRB BRØ9AH
PDRB BR1ØAH
PDRB BR11AH
PDRB BR12AH
PDRB BR13AH
PDRB BR14AH
PDRB BR15AH
PDRB LO PAR-H
PDRB HI PAR H
PDRB BRØØBL
PDRB BRØ1BL
PDRB BRØ2BL
PDRB BRØ3BL
PDRB BRØ4BL
PDRB BRØ5BL
PDRB BRØ6BL
PDRD BRØ7BL
PDRD BRØ8BL
PDRD BRØ9BL
PDRD BR1ØBL
PDRD BR11BL
PDRD BR12BL
PDRD BR13BL
PDRD BR14BL
PDRD BR15BL

```

PDRB(2) PDRC PDRD PDRE PDRF
PDRB(2) PDRC PDRD PDRE PDRF
PDRB(2) PDRC PDRD PDRE PDRF
PDRB(2) PDRC PDRD PDRE PDRF
PDRB(2) PDRC PDRD PDRE PDRF
PDRB(2) PDRC PDRD PDRE PDRF
PDRB(2) PDRC PDRD PDRE PDRF
PDRB(2) PDRC PDRD(2) PDRE PDRF
PDRB(2) PDRC PDRD(2) PDRE PDRF
PDRB(2) PDRC PDRD(2) PDRE PDRF
PDRB(2) PDRC PDRD(2) PDRE PDRF
PDRH
PDRH
CDPE IRCH SAPK SCCL
CDPE IRCH SAPK SCCL
CDPE IRCH SAPK SCCL
CDPE IRCH SAPK
CDPE IRCH SAPK
CDPE SAPK SCCL
CDPE SAPK
CDPE SAPK
CDPE SAPK
CDPE SAPK SSRD
CDPE SAPK
CDPE SAPK
CDPE SAPD SSRD
CDPE SAPD SSRD
CDPE SAPD SSRD
CDPE SAPD SSRD

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SOURCE

PDRD KERNEL DATI BH
 PDRD PIR15(1)H
 PDRD PIR14(1)H
 PDRD PIR13(1)H
 PDRD PIR12(1)H
 PDRD PIA02H
 PDRD PIA01H
 PDRD PIA00H
 PDRD PIR11(1)H
 PDRD PIR10(1)H
 PDRD PIR09(1)H
 PDRD LOAD PS H
 PDRD PS CLK H
 PDRD PRIORITY=0H
 PDRD READ PS H
 PDRD IBS00BL
 PDRD PS15(1)H
 PDRD PS15(0)H
 PDRD PS14(1)H
 PDRD PS14(0)H
 PDRD PS13(1)H
 PDRD PS13(0)H
 PDRD PS12(1)H
 PDRD PS12(0)H
 PDRD PS11(1)H
 PDRD PS11(0)H
 PDRD PS07(1)H
 PDRD PS07(0)H
 PDRD PS06(1)H
 PDRD PS06(0)H
 PDRD PS05(1)H
 PDRD PS05(0)H
 PDRD PS04(1)H

BUS INTD00L
 BUS INTD01L
 BUS INTD02L
 BUS INTD03L
 BUS INTD04L
 BUS INTD05L
 BUS INTD06L
 BUS INTD07L
 BUS INTD08L
 BUS INTD09L
 BUS INTD10L
 BUS INTD11L
 BUS INTD12L
 BUS INTD13L
 BUS INTD14L
 BUS INTD15L

DESTINATION

PDRD
 PDRE TMCA
 PDRE TMCA
 PDRE TMCA
 PDRE TMCA
 PDRD(2)
 PDRD(2)
 PDRD(2)
 PDRE TMCB
 PDRE TMCB
 PDRE TMCB
 PDRD(2)
 PDRD
 TMCB
 PDRD(2)
 PDRD(3)
 GRAC(2) PDRE
 GRAC SSRB(3)
 GRAB PDRD(2) PDRE
 GRAC SSRB(2) TMCD TMCE TMCC UBCC
 PDRE
 GRAC SSRB
 GRAC PDRE SSRB

 GRAC PDRE
 GRAC
 PDRE TMCB
 PDRD
 PDRE TMCB
 PDRD
 PDRE TMCB
 PDRD
 PDRE TMCB

SOURCE

DESTINATION

PDRE DMXS1L
 PDRE DMXS0L
 PDRE BUS D00L
 PDRE BUS D01L
 PDRE BUS D02L
 PDRE BUS D03L
 PDRE BUS D04L
 PDRE BUS D05L
 PDRE BUS D06L
 PDRE BUS D07L
 PDRE BUS D08L
 PDRE BUS D09L
 PDRE BUS D10L
 PDRE BUS D11L
 PDRE BUS D12L
 PDRE BUS D13L
 PDRE BUS D14L
 PDRE BUS D15L

PDRE
 PDRE

PDRF DISP D00H
 PDRF DISP D01H
 PDRF DISP D02H
 PDRF DISP D03H
 PDRF DISP D04H
 PDRF DISP D05H
 PDRF DISP D06H
 PDRF DISP D07H
 PDRF DISP D08H
 PDRF DISP D09H
 PDRF DISP D10H
 PDRF DISP D11H
 PDRF DISP D12H
 PDRF DISP D13H
 PDRF DISP D14H
 PDRF DISP D15H
 DPRF DISPS0L
 DPRF DISPS1L

PDRH
 PDRH
 PDRH
 PDRH
 PDRH
 PDRH
 PDRH
 PDRH
 PDRH
 PDRH
 PDRH
 PDRH
 PDRH
 PDRH
 PDRH
 PDRH
 PDRF
 PDRF

PDRH IND HI PAR H
 PDRH IND LO PAR H
 PDRH CASHE PERF L
 PDRH DISP DATA SEL0H
 PDRH DISP DATA SEL1H

PDRH
 PDRH
 UBCB CCBJ (3)
 PDRF
 PDRF

PDRJ D00H
 PDRJ D01H
 PDRJ D02H
 PDRJ D03H
 PDRJ D04H

PDRA
 PDRA
 PDRA
 PDRA
 PDRA

SOURCE

PDRJ D05H
 PDRJ D06H
 PDRJ D07H
 PDRJ D08H
 PDRJ D09H
 PDRJ D10H
 PDRJ D11H
 PDRJ D12H
 PDRJ D13H
 PDRJ D14H
 PDRJ D15H

RACA CLR RBR L
 RACA ZAP L
 RACA CLKA RAR H
 RACA CLK RAR H
 RACA UBRK H
 RACA UBRX H
 RACA USRX01H
 RACA USRX00H
 RACA UDRX01H
 RACA UDRX00H
 RACA USRK H
 RACA UDRK01H
 RACA UDRK00H
 RACA UCCL02H
 RACA UCCL01H
 RACA UCCL00H
 RACA UPCA H
 RACA UPCB01H
 RACA UPCB00H
 RACA USHF01H
 RACA USHF00H
 RACA UIRKA H
 RACA UIRK H

RACB ROM47 H
 RACB ROM46H
 RACB ROM40BL
 RACB ROM40H
 RACB UPWE01H
 RACB UPWE00H
 RACB UPAD02H
 RACB UPAD01H
 RACB UPAD00H
 RACB UBSD01H
 RACB UBSD00H
 RACB UBAX01H
 RACB UBAX00H
 RACB UIBS01H

DESTINATION

PDRA
 PDRA
 PDRA
 PDRA
 PDRA
 PDRA
 PDRA
 PDRA
 PDRA
 PDRA
 PDRA

RACB(2) RACC
 RACC RACD
 RACC
 RACC RACD
 TIGA
 PDRA
 GRAC
 GRAC
 GRAC GRAD(2) GRAE GRAF GRAH
 GRAC GRAD(2) GRAE GRAF GRAH
 GRAD
 GRAD(2)
 GRAD(2)
 IRCF
 IRCF
 IRCF
 DAPJ
 DAPJ(2)
 DAPJ(2)
 GRAA
 GRAA
 RACJ
 IRCA SSRH

 TIGA(2)
 RACB
 GRAC
 DAPJ GRAC(2)
 GRAC(2)
 GRAC(2)
 GRAC(2)
 RACA TMCC TMCD TMCE UECB
 TIGA TMCE
 DAPB
 DAPB TMCC
 IRCE PDRD(4) TMCF

SOURCE

RACB UIBS00H
RACB CLK RAB(34:28)H
RACB ROM34 H.
RACB ROM33 H
RACB ROM32 H

RACC USHC00H
RACC USHC00L
RACC USHC01H
RACC UBCT02H
RACC UBCT01H
RACC UBCT00H
RACC UMSC02H
RACC UMSC01H
RACC RARB01H
RACC RARB00H
RACC UMSC00H
RACC UMSC00L
RACC RARA06H
RACC RARA05H
RACC RARA04H
RACC UBSC02H
RACC UBSC01H
RACC UBSC00H
RACC UAMX01H
RACC UAMX00H
RACC UBMX01H
RACC RAR07H
RACC UBMX00H
RACC UKMX01H
RACC UKMX00H
RACC UALU2H
RACC UALU1H
RACC UALU0H

RACD ROM15H
RACD UCFEN L
RACD UBFEN L
RACD UAFEN L
RACD UBEF03H
RACD UBEF03L
RACD UBEF02H
RACD IBEFA01L
RACD UBEFB00L
RACD UBEFE01L
RACD UBEFA00L
RACD UADR07L
RACD UADR06L
RACD UADR05L
RACD UADR04L

DESTINATION

IRCE PDRD TMCF
RACC
RACC
RACC
RACC

GRAJ(2)
GRAJ
GRAJ(2)
TMCC TMCE UBCB UBCC UBCF
TMCC TMCE UECB(2) UBCC UBCF
TMCC TMCE TMCF UBCB
RACH TMCE
RACH TMCE
RACB RACA
RACB RACA
RACH TMCE
TMCE
RACD
RACD
RACD
TMCC TMCE
TMCC TMCE
TMCC TMCE
DAPB
DAPB
DAPB DAPD(2)
RACD
DAPB DAPD(2)
DAPD(2) DAPE(2)
DAPC DAPD(2) DAPE(2)
GRAA(3) IRCH
GRAA(2) IRCH
GRAA(3) IRCH

RACC
RACL
RACL
RACL
RACK
RACK(3) RACL
RACK RACL
RACK(2)
RACK
RACK
RACK(2)
RACL
RACL
RACL
RACL

SOURCE

RACD UADR03L
RACD UADR02L
RACD UADR01L
RACD UADR00L
RACD RARA00H
RACD RARA01H
RACD RARA02H
RACD RARA03H
RACD RAR07H
RACD RAR06H
RACD RAR05H
RACD RAR04H
RACD RAR03H
RACD RAR02H
RACD RAR01H
RACD RAR00H

RACE R CLASS H
RACE A0RAB00L
RACE BF2=5L
RACE (MUL:ASHC+MFP)H
RACE A0RAB01L
RACE BF3=5
RACE A0RAB02L
RACE SM0L
RACE BIN*SM0H
RACE BF1=0L
RACE JMP+JSR+SWAB H
RACE A0RAB03L
RACE BR INST H
RACE A0RAB04L
RACE BIN L
RACE BF1=7L
RACE BF2=4L

RACF BF01=0L
RACF (HALT:OPCODE 7)H
RACF IR(11:8)0L
RACF U CLASS
RACF (RTS:CCOP)H
RACF X CLASS H
RACF A1RAB00L
RACF A1RAB01L
RACF A1RAB02L
RACF A1RAB05L
RACF A2RAB03L
RACF A2RAB05L
RACF TRUE 1 H
RACF TRUE 2 H

DESTINATION

RACL
RACL
RACL
RACL
RACC
RACC
RACC
RACC
PDRC PDRF SSRA
PDRC PDRF SSRA
PDRC PDRF SSRA
PDRC PDRF SSRA
PDRC PDRF SSRA
PDRC PDRF SSRA
PDRC PDRF SSRA
PDRC PDRF SSRA

RACE RACH
RACL
RACH

RACL
RACF
RACL
RACH(2)
RACF RACH
RACE(3) RACF RACH(3)
RACE RACH
RACL
RACE RACH(4)
RACL(3)
RACF RACH
RACF RACH(3)

RACF
RACE
RACF
RACE

RACF
RACL
RACL
RACL
RACL
RACL
RACL
RACH
RACH

SOURCE

RACH BF2=7L
RACH A2RAB02L
RACH A2RAB01L
RACH PSWAB H
RACH BIN*(-SM01)L
RACH NEG.B*DM0H
RACH A0RAB07L
RACH DM0H
RACH DM0L
RACH DF7+BRQH
RACH DF7L
RACH AFIR10A(1)H
RACH AFIR10A(0)H
RACH AFIR09A(1)H
RACH AFIR09A(0)H
RACH T CLASS L
RACH A2RAB00L
RACH A1RAB04L
RACH BUST H

RACJ CLK AFIR15(1)H
RACJ AFIR15(0)H
RACJ AFIR14(1)H
RACJ AFIR14(0)H
RACJ AFIR13(1)H
RACJ AFIR13(0)H
RACJ AFIR12(1)H
RACJ AFIR12(0)H
RACJ AFIR11(1)H
RACJ AFIR11(0)H
RACJ BUFAFIR11(1)H
RACJ AFIR10(1)H
RACJ AFIR10(0)H
RACJ AFIR09(1)H
RACJ AFIR09(0)H
RACJ AFIR08(1)H
RACJ AFIR08(0)H
RACJ BUFAFIR08(1)H
RACJ AFIR07(1)H
RACJ AFIR07(0)H
RACJ AFIR06(1)H
RACJ AFIR06(0)H
RACJ AFIR05(1)H
RACJ AFIR05(0)H
RACJ AFIR04(1)H
RACJ AFIR04(0)H
RACJ AFIR03(1)H
RACJ AFIR03(0)H
RACJ AFIR02(1)H
RACJ AFIR02(0)H
RACJ AFIR01(1)H

DESTINATION

RACF
RACL
RACL
RACE RACH
RACF
RACH
RACL
RACE RACF(3) RACH
RACH(2)
RACE RACF

RACF(2) RACH
RACE(2) RACH(2)
RACF(2)
RACE(2) RACF(2)
RACE
RACL(2)
RACL
CCBB CCBL SSRK TMCC UBCE

RACE RACF(2) RACH
RACE(2) RACF(3)
RACE(4)
RACE(3) RACF
RACE(4)
RACE(3) RACF
RACE(4)
RACE(3) RACF
RACE(4) RACF(2) RACH(2)
RACE(2) RACF RACH(3)
RACE RACF RACH
RACE RACF(2) RACH
RACE(3) RACF RACH(2)
RACE RACF RACH
RACE(3) RACF(2)
RACE(2) RACF RACH
RACE(2) RACF RACH
RACE RACH(2)
RACF RACH
RACE RACF(4) RACH(3)
RACE RACF(3) RACH
RACF(3) RACH(2)
RACF
RACE RACF(4) RACH(2)
RACF(2)
RACE RACF(2) RACH
RACF(3)
RACE RACH
RACF RACH

RACF RACH

SOURCE

RACJ AFIRØ1(Ø)H
RACJ AFIRØØ(1)H
RACJ AFIRØØ(Ø)H

RACK SYNC BRC1Ø(1)H
RACK BRCABØ5L
RACK BRC1ØH
RACK FP REQ H
RACK BRCABØ4L
RACK BRCABØ7L
RACK BRCABØ4L
RACK BRCABØ2L
RACK BRCABØ1L
RACK BRCABØØL
RACK BEF(1:Ø)ØH
RACK BEF(3:2)3H
RACK BEF(1:Ø)1H

RACL RADRØØH
RACL RADRØ1H
RACL RADRØ2H
RACL RADRØ3H
RACL RADRØ4H
RACL RADRØ5H
RACL RADRØ6H
RACL RADRØ7H

TIGA SNGCY H
TIGA ROM INIT BL
TIGA CONT(1)H
TIGA PAUSE H
TIGA MEM SYNC(1)H
TIGA MEM SYNC(Ø)H
TIGA MEM SYNC H
TIGA T4L
TIGA CLK BR H
TIGA CLK BRA H
TIGA PSEUDO T3H
TIGA ROM INITA L
TIGA STOP T1L
TIGA T1MATH
TIGA T2MATH
TIGA T3MATH
TIGA T4MATH
TIGA T5MATH
TIGA TPHMATH

DESTINATION

RACF RACH

RACK(2)
RACL
UBCC
RACH
RACL
RACL
RACL
RACL
RACL
RACL
RACK
RACK RACL(2)
RACK(2)

RACC RACD
RACC RACD
RACA RACD
RACA RACD
RACA RACC RACD
RACA RACC RACD
RACA RACC RACD
RACA RACC RACD

SCCJ
TIGE
TIGA
TIGA(3) TIGB

TIGA

DAPA
PDRB PDRH
SCCC(2) SCCD UBCA(2)
TIGA

SOURCE

TIGB RC L
 TIGB MSEN (Ø),H
 TIGB SOURCE CLOCK L
 TIGB RC EN (Ø) H
 TIGB XTAL EN (Ø) H
 TIGB CONT L
 TIGB ROM+UPB(1) H
 TIGB SINGLE CY L
 TIGB PB SYNCH H
 TIGB XTAL H
 TIGB RC H
 TIGB CLOCK E
 TIGB CLOCK H

TIGC TPB H
 TIGC TF H
 TIGC TFRH
 TIGC TPB L
 TIGC TF L
 TIGC TFR L
 TIGC TI H

TIGC TIBH
 TIGC TIR H
 TIGC TIBRH
 TIGC TIL
 TIGC TIBL
 TIGC TIRL
 TIGC TIBRL
 TIGC T2H
 TIGC T2BH
 TIGC T2RH
 TIGC T2BRH
 TIGC T2L
 TIGC T2BL
 TIGC T2RL
 TIGC T2BRL

TIGD T3H
 TIGD T3BH
 TIGD T3L
 TIGD T3DL
 TIGD T4H
 TIGD T4BH
 TIGD T4L
 TIGD T4BL
 TIGD T5H
 TIGD T5BH
 TIGD T5L
 TIGD T5BL

DESTINATION

 TIGB

 TIGB
 TIGB
 TIGA
 TIGA
 TIGA

 TIGA (2) TIGB (2)
 TIGA (2) TIGB (2)
 TIGC TIGD
 TIGC TIGD

TIGA (3) TIGE
 CCBA CCBC CCBE GRAC IRCH

 TIGA (3) TIGB
 UBCD

 DAPJ GRAB (2) GRAD IRCA SAPD
 SAPK SCCD SSRB
 RACB (2) RACJ RACK UBCA UBCB UECD

 SSRA
 GRAD RACB RACC

 TMCD
 CCBC (2)

 RACA

 UBCA CCBC (2)
 GRAD GRAJ PDRJ RACA

 GRAC SAPA TMCC
 PDRD (3)

 DAPJ GRAC TMCD
 IRCH PDRD SSRF
 GRAJ SAPC SAPD

SOURCE

TIGE TS1 L
 TIGE TS2 L
 TIGE TS3 L
 TIGE TS4 L
 TIGE TS5 L

TMCA PAR TRP (1)H
 TMCA BRQ CLR L
 TMCA CONF (1)H
 TMCA CONF (Ø)H
 TMCA SEGTF L
 TMCA ABOVE BR7L
 TMCA INH BELOW BR6L
 TMCA BLOCK BR4L
 TMCA INH BELOW PIR4L
 TMCA PERF ACKN L
 TMCA SEG ACKN L
 TMCA HONOR SEGT H
 TMCA SEG+CON+PAR L
 TMCA HONOR SLY L
 TMCA HONOR SLY H
 TMCA HONOR PWRF L
 TMCA HONOR FPTRAP L
 TMCA HONOR PIR7L
 TMCA HONOR BR7L
 TMCA HONOR PIR6L
 TMCA HONOR BR6L
 TMCA HONOR PIR5L
 TMCA HONOR BR5L
 TMCA HONOR PIR4L

TMCB PSØ4 MATH
 TMCB HONOR T L
 TMCB TOK L
 TMCB FPTRAP L
 TMCB CLR INTRE L
 TMCB PF (Ø)* (SF+TF)H
 TMCB PF (Ø)* (SF+-TF)H
 TMCB FP ACKN L
 TMCB HONOR FPTRAP H
 TMCB HONOR PWRF H
 TMCB BRQ TRUE H
 TMCB BRQ TRUE L
 TMCB BRQ *- (T+CONF)L
 TMCB SEGT L
 TMCB PWRF L
 TMCB TRAP INH L
 TMCB PIRQ L
 TMCB HONOR BR4L

DESTINATION

 RACA SSRK TMCC UBCD
 SSRK TMCC UBCB
 SSRK UBCA (3)
 SSRK TMCD

TMCA TMCB
 TMCB
 RACK TMCA UBCF (2)
 TMCB (2) TMCF UBCF
 TMCA
 TMCB
 TMCB
 TMCB
 TMCB
 CCBJ

 TMCB
 TMCB
 TMCB (2)
 TMCC
 TMCB (4) TMCC UBCE
 TMCB (4)
 TMCB (2)
 TMCB UBCD (2)
 TMCB (2)
 TMCB UBCD (2)
 TMCB (2)
 TMCB UBCD (2)
 TMCB (2)

 DAPE TMCB
 DAPE
 TMCC UBCC
 RACK
 RACK

 TMCC
 RACE RACH TMCB
 RACH RACK
 RACK
 TMCB
 DAPE
 IRCD
 DAPE TMCB
 TMCB UBCD (2)

SOURCE

TMCB HONOR PIR3L
 TMCB HONOR PIR2L
 TMCB HONOR PIR1L
 TMCB BLOCK LEV7L
 TMCB BLOCK LEV6L
 TMCB BLOCK LEV5L
 TMCB BLOCK LEV3L
 TMCB BLOCK LEV2L
 TMCB PSØ7(Ø)H
 TMCB PWRP+INTRF L
 TMCB PART L

TMCC ODD ADRS ERR L
 TMCC BSCØ13L
 TMCC NEXML
 TMCC TS3 CLKA H
 TMCC TS3 CLK H
 TMCC SERF MAT H
 TMCC SERF(1)H
 TMCC SERF(Ø)H
 TMCC BCTØ2BL
 TMCC TS2 CLK H
 TMCC BUS ERROR L
 TMCC NEXM L
 TMCC ABORT H
 TMCC ABORT CLK L
 TMCC ABORT CLR L
 TMCC BLOCK STROBE(1)H
 TMCC STROBE INH L
 TMCC KERNEL R6(1)H
 TMCC KERNEL R6(Ø)H
 TMCC AERF MAT H
 TMCC AERF (1)H
 TMCC AERF (Ø)H
 TMCC SEG ABORTED (1)H
 TMCC INIT+ACKN L
 TMCC PRIORITY CLR L
 TMCC AC CLEAR L

TMCD CACHE NEXM H
 TMCD UBUS TIMEOUT H
 TMCD YEL TRAP H
 TMCD CLR ERR REG A L
 TMCD CLR ERR REG B L
 TMCD ILL HALT H
 TMCD SL RED ERR H
 TMCD ODD ADRS H
 TMCD YEL ZONE H
 TMCD HI BYTE EN H
 TMCD LO BYTE EN H

DESTINATION

TMCB(2)
 TMCB(2)
 TMCB(2)
 TMCA
 TMCB
 TMCA
 TMCB
 TMCB
 TMCA TMCB
 RACK
 UCB

TMCD TMCE
 TMCE

 TMCB TMCD(2) TMCE
 TMCC

 TMCB TMCD
 TMCB
 TMCF
 TMCE

 TMCD TMCE
 RACA TIGA UCB
 TMCD(2)

 TMCB TMCD
 TMCE
 TMCD

 TMCB
 TMCB
 TMCB

 TMCA
 UBCE

SCCM
 SCCM
 SCCM

SCCM
 SCCM
 SCCM
 TMCD
 PDRE
 PDRE

SOURCE

TMCD SL YEL(1)H
 TMCD CIBL
 TMCD DMX SØH
 TMCD DMX SLH
 TMCD SL RED H
 TMCD SL RED L
 TMCD CLK LR H

TMCE SET PRIORITY H
 TMCE MSCØ1BL
 TMCE FLOATING ATTN H
 TMCE SET HALT H
 TMCE MSCØ2BL
 TMCE ROM BEND L
 TMCE BRQ STROBE H
 TMCE BRQ CLK H
 TMCE CLK CONF H
 TMCE PAUSES BL
 TMCE KT BEND L
 TMCE CACHE BEND H
 TMCE SET CONF L
 TMCE INTR PAUSE H
 TMCE INTR CLR L
 TMCE INTR PAUSE L
 TMCE IND PAUSE H
 TMCE PAUSES L
 TMCE PAUSES BH
 TMCE PAUSES H
 TMCE CONTROL OK H
 TMCE BSCØ2 BL
 TMCE ClH
 TMCE CØH
 TMCE KERNEL DATI L
 TMCE BSCØØ BL
 TMCE FC H

TMCF SEL INT L
 TMCF SEL MEM L
 TMCF CACHE ADRS H
 TMCF READ SW L
 TMCF IBSØØ BL
 TMCF GET OFF H
 TMCF FP READ L
 TMCF CLK HI PS L
 TMCF CLK LO PS L
 TMCF CLK BP H
 TMCF CLK SL H
 TMCF CLK PIR H
 TMCF IND RUN H
 TMCF IND ADRS ERR H

DESTINATION

TMCA TMCD
 TMCD
 PDRE
 PDRE
 TMCD
 TMCC TMCE
 PDRB

PDRD

 UBCD
 TMCD

 TMCA(2) TMCB
 TMCA TMCC
 UBCB(2)
 SAPK SSRC SSRD
 CCBB CCBC(2)

 UBCD
 UBCF
 TMCf
 TMCB SCCJ
 TMCA TMCC TMCf
 SAPC SSRD SSRK UBCA(2)
 TMCA TMCC TMCD(2)
 CCBC(2)

 SAPK SCCC SSRJ TMCD(3) UBCC
 SAPL UBCC
 PDRD(3)

PDRA
 PDRA
 TIGA(2) TMCE UBCA
 SCCH(2) SCCJ
 TMCf
 SSRJ
 TMCf
 PDRD
 PDRD
 PDRC
 PDRC
 PDRD
 SCCF
 SCCF

SOURCE

UBCA PASSIVE L
 UBCA BBSY MAT H
 UBCA START BUS(1)H
 UBCA TS4 CLK. H
 UBCA UNIBUS ADRS H
 UBCA IND CLK H
 UBCA CP BSY (1)H
 UBCA CP BSY (Ø)H
 UBCA MSYN (1)H
 UBCA MSYN (Ø)H
 UBCA CLR IND (Ø)H
 UBCA CPBSY BH
 BUS BBSY L
 BUS MSYN L
 UBCA MSYN SET H
 UBCA START TIMEOUT L
 UBCB TIMEOUT (Ø)H
 UBCB TIMEOUT BL
 UBCB TIMEOUT BH
 UBCB SSYN L
 UBCB SSYN H
 UBCB SSYN MAT H
 UBCB TS3L
 UBCB TS3 CLK H
 UBCB TS3 CLK AH
 UBCB BCTØØBL
 UBCB ABORT ACKN L
 UBCB TIG RESTART H
 UBCB CP SSYN L
 UBCB ABORT RESTART H
 UBCB ABORT L
 UBCB ABORT L
 UBCB ACKN BH
 UBCB ACKN L
 UBCB ABORT ACKN H
 UBCB PAR ABORT CLR L
 UBCB HI BYTE H
 UBCB LO BYTE H
 UBCB CC DATA (1)H
 UBCB CLR CC DATA L
 UBCB IND PAR ERR H
 UBCB PARITY ERR L
 UBCB PE ABORT L
 UBCB UBUS PAR ERR H

UBCC INTRF (1)H
 UBCC INTRF (Ø)H
 UBCC INTR BH
 UBCC CIBL
 BUS ClL
 BUS CØL
 BUS SSYN L
 UBCC INTR L
 UBCC DATO L
 UBCC CIBH

DESTINATION

UBCB

 UBCA UBCB UBCC UBCF
 TIGA
 PDRH
 UBCA(2) UBCC
 UBCF
 UBCA(2) UBCB(2) UBCC
 UBCB UBCC
 PDRH
 PDRE SCCE(2) SCCL UBCC

 TMCD(2) TMCF
 UBCB
 UBCA
 TMCC
 TMCD
 UBCA
 UBCA

 UBCA UBCC
 UBCC(2) UBCE(2) UBCH
 UBCB UBCF
 UBCC UBCF
 TMCD UBCB UBCE
 TIGA
 UBCA
 UBCA
 UBCA
 UBCA
 TMCA TMCB(2) TMCC

 SSRC

 SAPK SSRC SSRD TMCF(2)
 SAPK TMCF
 IRCH(2)

 SCCF SCCJ
 DAPE TMCB
 RACA TMCC UBCA
 CCBJ CCBK

 TMCB
 UBCB
 UBCA

 UBCB
 UBCB
 ADMJ UBCA

SOURCE

UBCC CØBH
 UBCC DATI L
 UBCC DATIP L.
 UBCC START INIT (1)H
 UBCC START INIT (Ø)H
 UBCC RESET WAIT (Ø)H
 UBCC RESET (1)H
 UBCC RESET (Ø)H
 UBCC RIP+FP SYNC H

UBCD EXT BRQ L
 UBCD EXT BRQ H
 UBCD TS2 CLK H
 UBCD SACK H
 UBCD FREE CLK (Ø)H
 UBCD BRQ (1)H
 UBCD NPR (1)H
 UBCD NPR (Ø)H
 UBCD SACK (Ø)H
 UBCD GRANT BR (1)H
 UBCD NPG (1)H
 UBCD NPG (Ø)H
 UBCD PROC NPG H
 UBCD DSACK (1)H
 UBCD DSACK (Ø)H
 UBCD CLR BG (1)H
 UBCD CLR BG (Ø)H
 UBCD ENAB BR H
 UBCD FP ATTN L
 UBCD FP ATTN H
 UBCD PROC BG4H
 UBCD PROC BG5H
 UBCD PROC BG6H
 UBCD PROC BG7H
 UBCD NO SACK (1)H
 UBCD FP SYNC H
 UBCD FP SYNC MAT H

UBCE ACLO L
 UBCE ACLO H
 UBCE BLOCK DOWN (1)H
 UBCE DCLO B H
 UBCE DCLO B L
 UBCE PUPF (1)H
 UBCE PUPF (Ø)H
 UBCE PF CLR (1)H
 UBCE PF CLR (Ø)H
 UBCE PDNF (1)H
 UBCE PDNF (Ø)H
 UBCE START INIT L

DESTINATION

ADMJ
 TMCC
 UBCA UBCD

 UBCC UBCD

 UBCE
 UBCC UBCD UBCE
 RACK

TMCB
 TIGA
 UBCB
 UBCD
 UBCA

 UBCA
 UBCA
 UBCD
 UBCA UBCD

 UBCA (2) UBCD
 UBCA

 UBCD

 UBCD
 UBCC

ADMJ (2) UBCD UBCE
 UBCE

 MAPB UBCE
 ADMJ UBCA UBCE (3) UBCF UBCH
 TMCB

 UBCE
 TMCA
 TMCA UBCC

 UBCH

SOURCE

UBCE BUST+DCLO L
 UBCE BUST MAT H
 BUS DCLO L
 UBCE INT BUS INIT L
 BUS INIT L
 UBCE ROM INIT H
 UBCE INIT H
 UBCE INIT L

UBCF START L
 UBCF ACKN T4L
 UBCF EXAM(1)H
 UBCF EXAM(Ø)H
 UBCF REG EXAM(1)H
 UBCF REG EXAM(Ø)H
 UBCF DEPOS (1)H
 UBCF DEPOS (Ø)H
 UBCF REG DEP (1)H
 UBCF REG DEP (Ø)H
 UBCF CNSLØ7(1)H
 UBCF CNSLØ7(Ø)H
 UBCF CONT (1)H
 UBCF CONT (Ø)H
 UBCF START (1)H
 UBCF START (Ø)H
 UBCF STATUS CLR L
 UBCF CNSL ACT (1)H
 UBCF CNSL ACT (Ø)H
 UBCF IND MASTER H
 UBCF ACKN LEVEL H
 UBCF STOP L
 UBCF CNSL RESET L
 UBCF DISABLE NPR L

UBCH STEP DEPOSIT 2L
 UBCH MICRO AD2 H
 UBCH MICRO AD1 H
 UBCH STEP EXAM Ø L
 UBCH DEPOSIT+REG DPST L
 UBCH MICRO ADØ H
 UBCH MSB DATA L
 UBCH REG STEP EXM L
 UBCH REG STEP DEP+EXM L
 UBCH REG DEP L
 UBCH REG DEP+REG EXM L
 UBCH CNSLØØH
 UBCH CNSLØ1H
 UBCH CNSLØ2H

DESTINATION

UBCC UBCE

 PDRC PDRD SSRK TMCA

 CCBA RACA(2) RACC TIGA(2)
 CCBA CCBL TMCB TMCD UBCF
 GRAJ IRCH PDRB PDRD TMCC(2)
 TMCD UBCA(5) UBCB(2) UBCD(5)
 UBCE UBCF UBCH

UBCE
 UBCF
 UBCH

 UBCH

 UBCH(2)

 RACK UBCH

 RACK
 UBCH(2)
 SCCK UBCH
 UBCH(2)

 UBCF(3)
 PDRD
 GRAC(2) RACK TMCF
 GRAB(2) SCCJ TIGB TMCC(2)
 SCCF
 UBCF UBCH

 TMCE UBCE
 UBCD

 UBCH

 RACK
 RACK
 RACK

```
UBCH REG EXAM+STEP H
UBCH REG EXAM+STEP L
UBCH REG DEP+STEP H
UBCH REG DEP+STEP L
UBCH STEP DEP+DEP L
UBCH STEP DEP+DEP H
UBCH EXAM+STEP EXAM H
UBCH CLR CONF L
```

UBCH
UBCH (2)
UBCH
UBCH
UBCH
UBCH
TMCA

ADMK (2)
ADMK (2)
ADMK (2)
ADMK (2)
ADMK (2)
ADMK (2)
ADMK (2)
ADMB
ADMB
ADMB
ADMB
ADMB
ADMB
ADMB
ADMB
ADMA ADMB (2)

ADMK (2)
ADMK (2)
ADMK (2)
ADMK (2)
ADMK
ADMK
ADMK (2)

ADMK (2)
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ADMD
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ADMD

SOURCE

ADMC AMX A09L
ADMC TAG1 WPL

ADMD TAG1 A10L
ADMD TAG1 A11L
ADMD TAG1 A12L
ADMD TAG1 A13L
ADMD TAG1 PARB L
ADMD TAG1 PARA L
ADMD TAG1 VALID H

ADME AMX 00H
ADME AMX 01H
ADME AMX 02H
ADME AMX 03H
ADME AMX 04H
ADME AMX 05H
ADME AMX 06H
ADME AMX 07H
ADME AMX 08H
ADME AMX 09H
ADME AMX 10L
ADME AMX 10H
ADME AMX 11L
ADME AMX 11H

ADMF AMX 12L
ADMF AMX 12H
ADMF AMX 13L
ADMF AMX 13H
ADMF AMX 14L
ADMF AMX 14H
ADMF AMX 15L
ADMF AMX 15H
ADMF AMX 16L
ADMF AMX 16H
ADMF AMX 17L
ADMF AMX 17H
ADMF AMX 18L
ADMF AMX 18H
ADMF AMX 19L
ADMF AMX 19H
ADMF AMX 20L
ADMF AMX 20H
ADMF AMX 21L
ADMF AMX 21H
ADMF PARA GEN H
ADMF PARA GEN L
ADMF PARB GEN 1 H

DESTINATION

ADMD
ADMD

ADMK (2)
ADMK (2)
ADMK (2)
ADMK (2)
ADMK
ADMK
ADMK (2)

ADMJ CCBH DTMA
ADMJ CCBH DTMA
ADMA ADMC ADMJ CCBH DTMA ADML
ADMA ADMC ADMJ ADML CCBH DTMA
ADMA ADMC ADMJ ADML CCBH DTMA
ADMA ADMC ADMJ ADML CCBH DTMA
ADMA ADMC ADMJ ADML CCBH DTMA
ADMA ADMC ADMJ ADML CCBH DTMA
ADMA ADMC ADMJ ADML CCBH DTMA
ADMA ADMC ADMJ ADML CCBH DTMA
ADMK (2)
ADMB ADMD ADMF ADMJ ADML CCBH
ADMK (2)
ADMB ADMD ADMF ADMJ ADML CCBH

ADMK (2)
ADMB ADMD ADMF ADMJ ADMK CCBH
ADMK (2)
ADMB ADMD ADMF ADMJ ADMK CCBH
ADMK (2)
ADMA ADMC ADMF ADMJ ADML CCBH
ADMK (2)
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ADMA ADMC ADMF ADML CCBH
ADMK (2)
ADMA ADMC ADMF ADML CCBH
ADMK (2)
ADMA ADMC ADMF ADML CCBH
ADMJ
ADMB ADMD
ADMD

SOURCE

ADMH MBC A00 H
 ADMH MBC A01 H
 ADMH MBC A02 H
 ADMH MBC A03 H
 ADMH MBC A04 H
 ADMH MBC A05 H
 ADMH MBC A06 H
 ADMH MBC A07 H
 ADMH MBC A08 H
 ADMH MBC A09 H
 ADMH MBC A10 H
 ADMH MBC A11 H
 ADMH MBC A12 H
 ADMH MBC A13 H
 ADMH MBC A14 H
 ADMH MBC A15 H
 ADMH MBC A16 H
 ADMH MBC A17 H
 ADMH MBC A18 H
 ADMH MBC A19 H
 ADMH MBC A20 H
 ADMH MBC A21 H
 ADMH MBC A22 H
 ADMH MBC A23 H
 ADMH MBC CX H

ADMJ READ L
 ADMJ C0 H
 ADMJ PARB GEN 0 H
 ADMJ ADRS COUNT H
 ADMJ DATIP H
 ADMJ DATOB H
 ADMJ ADRS PARITY H
 ADMJ ALLOW WP H
 ADMJ PUP WP L
 ADMJ WPH
 ADMJ BYTE MASK 3H
 ADMJ BYTE MASK 2H
 ADMJ BYTE MASK 1H
 ADMJ BYTE MASK 0H
 ADMJ PUP A03 H
 ADMJ PUP A02 H
 ADMJ PUP A01 H
 ADMJ PUP A00 H
 ADMJ POWER UP(1) H
 ADMJ POWER UP(0) H
 ADMJ PUP A07 H
 ADMJ PUP A06 H
 ADMJ PUP A05 H
 ADMJ PUP A04 H

DESTINATION

ADME
 ADME
 ADME
 ADME
 ADME
 ADME
 ADME
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 ADME
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 ADMF
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 ADMF
 ADMF
 ADMF
 ADMJ

ADMJ CCB D CDPK DTMB
 CCBH
 ADMB

 CCBC CDPH
 DTMB
 ADML

 DTMB
 ADMA ADMC
 ADML
 ADML
 ADML
 ADML
 ADME
 ADME
 ADME
 ADME
 ADMJ DTMB
 CCBA CCBB CCBM
 ADME
 ADME
 ADME
 ADME

SOURCE

ADMK GROUP 1 PARA OK H
 ADMK GROUP 1 PARB OK H
 ADMK TAG 1 PAR ERR H
 ADMK GROUP 0 A MATCH H
 ADMK GROUP 1 A MATCH H
 ADMK GROUP 0 PARA OK H
 ADMK GROUP 0 PARB OK H
 ADMK TAG 0 PAR ERR H
 ADMK GROUP 0 HIT L
 ADMK GROUP 1 HIT L
 ADMK HIT EITHER L

ADML ADRS ACK H
 ADML ADRS PAR ERR H
 ADML OCC H
 ADML MAIN ACLO H
 ADML MAIN DCLO H

CCBA ARB CLK H
 CCBA SYNC CLK H
 CCBA INIT H
 ADML MAIN ACLO H
 ADML MAIN DCLO H

CCBA ARB CLK H
 CCBA SYNC CLK H
 CCBA INIT H
 CCBA INIT A L
 CCBA INIT B L
 CCBA INIT C L
 CCBA INIT D L

CCBB LOCK (1) H
 CCBB LOCK (0) H
 CCBB PRE UBUS (1) H
 CCBB PRE MBC (1) H
 CCBB CLK MBC ADRS L
 CCBB AMX S0 H
 CCBB AMX S1 H
 CCBB UB CYCLE L
 CCBB UB CYCLE H

CCBB CP CYCLE H
 CCBB CP CYCLE L
 CCBB MBC CYCLE H
 CCBB MBC CYCLE L

DESTINATION

ADMK
 ADMK
 CCBK (2) CCBM
 CCBM
 CCBM
 ADMK
 ADMK
 CCBK(2) CCBM
 CCBC(2) CCBD DTMM
 CCBC(2) CCBD
 CCBC(2)

CCBD CCBE
 CCBK(2)
 CDPD
 UBCE
 UBCE

CCBB(3) CCBC(6) CCBD CCBE(3)
 CCBB(2)
 CDPD
 UBCE
 UBCE

CCBB(3) CCBC(6) CCBD CCBE(3)
 CCBB(2)
 CDPJ CDPK
 CCBB(3) CCBC(3) CCBE(2)
 CCBC(4) CCBD(3)
 CCBD CCBE(2)
 CCBJ(3) CCBK(2) CCBL

CCBB(2) CCBC CCBE
 CCBB(3) CCBC CCBD
 CCBB
 CCBB
 ADMH
 ADME(2) ADMF(2) ADMJ
 ADME(2) ADMF(2) ADMJ
 CCBC
 CCBC(4) CCBD(2) CCBJ CCBK
 CCBH
 CCBC(6) CCBD(2) CCBE CCBJ(2)
 CCBK CDPE
 CCBC CCBD CCBE(4)
 CCBD(2) CCBE CCBK CCBM

SOURCE

CCBC BUST HOLD(1) H
 CCBC BUST HOLD(0) H
 CCBC CONTROL OK(1) H
 CCBC CONTROL OK(0) H
 CCBC T2 DLY(1) H
 CCBC T2 DLY(0) H
 CCBC NON CPY DATIP(1) H
 CCBC NON CPY DATIP(0) H
 CCBC NON UBUS DATIP(1) H
 CCBC NON UBUS DATIP(0) H
 CCBC NON MBC DATIP(1) H
 CCBC NON MBC DATIP(0) H
 CCBC BEND HOLD(1) H
 CCBC BEND HOLD(0) H
 CCBC UB ACKNL
 CCBC UB DONE H
 CCBC DONE(1) H
 CCBC DONE(0) H
 CCBC DONE H
 CCBC MEM SYNC H

CCBD SLOW CYCLE MAT H
 CCBD SLOW CYCLE (1) H
 CCBD SLOW CYCLE L
 CCBD SLOW CYCLE (0) H
 CCBD DMX S1 H
 CCBD READ IN PROG (1) H
 CCBD READ H

CCBD READ L

CCBD START SLOW(1) H
 CCBD START SLOW(0) H
 CCBD START H
 CCBD UB TIME OUT L
 CCBD MBC TIME OUT H
 CCPD CP TIME OUT L
 CCBD TIME OUT (1) H
 CCBD TIME OUT (0) H
 CCBD DONE CLR L

CCBE MBC ADRS ACKN L
 CCBE ADRS ACK (1) H
 CCBE ADRS ACK (0) H
 CCBE T30 (1) H
 CCBE T30 (0) H
 CCBE CP SYNCL
 CCBE MBC REQ ACKN L
 CCBE T60 (1) H
 CCBE T90 H
 CCBE T60 (0) H

DESTINATION

CCBB(2)

CCBC CCBJ
 CCBC CCBD
 CCBB CCBC(3)
 CCBB CCBC

CCBB(2)

CCBB(3)

CCBB(3)
 CCBC(2)

MAPF
 MAPB MAPH
 CCBC(2) CCBL
 CCBC(4) CCBD CCBE(2)
 CCBB CCBD CCBE(3)
 TIGA

CCBC
 CCBD DTMB OTMM
 DTMB DTMM
 DTMM(3)
 CCBE
 CCBC(2) CCBD(2) CCBE
 CCBH
 CCBC CCBE CCBH(2) CCBJ
 CCBM(2)
 CCBD(2)
 CCBE(2)
 ADML
 MAPB
 CDPK
 PDRH
 CCBK
 CCBC CCBE (2)
 CCBE

CCBD

CCBC CCBE CCBL
 CCBC CCBK

CDPK
 CCBE CCBH(2)
 CCBC CCBJ
 CCBE CCBL

SOURCE

DESTINATION

CCBE T12 (0) H
 CCBE ALLOW TIME OUT L
 CCBE PARITY CLK H
 CCBE T120 (1) H
 CCBE CLK PRI H
 CCBE T150 HOLD (1) H
 CCBE T150 HOLD (0) H
 CCBE DISABLE REQ H
 CCBE WPL
 CCBE RESTART SYNC (1) H
 CCBE RESTART (1) H
 CCBE RESTART (0) H
 CCBE MEM SYNC SLOW (1) H
 CCBE MEM SYNC SLOW (0) H

CCBD
 CCBD
 CCBK
 CCBC
 CDPH CDPJ
 CCBC(3)
 CCBD CCBE
 CDPJ (2)
 ADMJ DTMB
 CCBD
 CCBK
 CCBC
 CCBC

CCBF REG D00 H
 CCBF REG D01 H
 CCBF REG D02 H
 CCBF REG D03 H
 CCBF REG D04 H
 CCBF REG D05 H
 CCBF REG D06 H
 CCBF REG D07 H
 CCBF REG D08 H
 CCBF REG D09 H
 CCBF REG D10 H
 CCBF REG D11 H
 CCBF REG D12 H
 CCBF REG D13 H
 CCBF REG D14 H
 CCBF REG D15 H
 CCBF ADRS 02 L
 CCBF ADRS 03 L

MAPH
 MAPH
 MAPH
 MAPH
 MAPH
 MAPH
 MAPH
 MAPH
 MAPH
 MAPH
 MAPH
 MAPH
 MAPH
 MAPH
 CCBF(2)
 CCBF

CCBH REPLACE ONE H
 CCBH REPLACE ONE L
 CCBH REPLACE ZERO H
 CCBH REPLACE ZERO L
 CCBH FORCE MISS ONE H
 CCBH FORCE MISS ONE L
 CCBH FORCE MISS ZERO L
 CCBH FORCE MISS ZERO H
 CCBH FORCE MISS GP1 L
 CCBH FORCE MISS GP0 L
 CCBF DIS UNI TRAPS H
 CCBF DIS UNI TRAPS L
 CCBH DIS TRAPS H
 CCBH DIS TRAPS L
 CCBH CLK MAINT REG L
 CCBH CLK CONTROL REG L
 CCBH WRITE ERR REG L
 CCBH ERR ADRS 00 H
 CCBH ERR ADRS 01 H
 CCBH ERR ADRS 02 H

CCBF
 CCBM
 CCBF
 CCBM
 CCBF
 CCBK(2)
 CCBK(2)
 CCBF
 ADMK
 ADMK
 CCBF
 CCBJ
 CCBF
 CCBJ
 CCBL (4)
 CCBJ
 CCBF
 CCBF
 CCBF

CCBH	ERR	ADRS	03	H
CCBH	ERR	ADRS	04	H
CCBH	ERR	ADRS	04	H
CCBH	ERR	ADRS	05	H
CCBH	ERR	ADRS	06	H
CCBH	ERR	ADRS	07	H
CCBH	ERR	ADRS	08	H
CCBH	ERR	ADRS	09	H
CCBH	ERR	ADRS	10	H
CCBH	ERR	ADRS	11	H
CCBH	ERR	ADRS	12	H
CCBH	ERR	ADRS	13	H
CCBH	ERR	ADRS	14	H
CCBH	ERR	ADRS	15	H
CCBH	ERR	ADRS	16	H
CCBH	ERR	ADRS	17	H
CCBH	ERR	ADRS	18	H
CCBH	ERR	ADRS	19	H
CCBH	ERR	ADRS	20	H
CCBH	ERR	ADRS	21	H
CCBH	ERR	C0	H	
CCBH	ERR	C1	H	

[illegible]

```
CCBJ VALID CP CYC H
CCBJ UB MEM CYC L
CCBJ ERR REG 15 H
CCBJ ERR REG 15(0) H
CCBJ CACHE REG L
CCBJ REG ENAB H
CCBJ CLR ERR REG L
CCBK ERR REG 14 H
CCBJ ERR REG 13 H
CCBJ ERR REG 12 H
CCBJ CLR ERR 13 L
CCBJ READ B H
CCBJ ERR REG 11H
CCBJ CLR ERR 09 L
CCBJ CLR ERR 08 L
CCBJ CLK ADRS H
CCBJ ACK (0) H
CCBJ PARITY TRAPH
CCBJ PARITY ABORT H
CCBJ ERR REG 10 H
```

CCBC CCBJ, CCBL
CCBJ
CCBF
CCBJ
CCBC
CCBK
CCBJ CCBK (2)
CCBF
CCBF
CCBF

CCBK(3) CCBM(2)
CCBF
CCBK
CCBK
CCBH
CCBJ (2)
TMCA
PDRH
CCBF

```
CCBK ERR REG 00 H
CCBK CLR ERR 04 L
CCBK CLR ERR 05 L
CCBK CLR ERR 06 L
CCBK ERR CLK (1) H
```

CCBF
CCBK
CCBK

CCBK

SOURCE

DESTINATION

CCBK DATA PE 1 H
 CCBK ERR REG 07 H
 CCBK ERR REG 05 H
 CCBK DATA PE 0 H
 CCBK ERR REG 06 H
 CCBK ERR REG 04 H
 CCBK ERR REG 08 H
 CCBK ERR REG 03 H
 CCBK CLR ERR 01 L
 CCBK CLR ERR 00 L
 CCBK ERR REG 01 H
 CCBK ERR REG 02 H
 CCBK ERR REG 00 H
 CCBK ANY ERR (1) H
 CCBK ANY ERR (0) H

CCBK
 CCBF
 CCBF
 CCBK
 CCBF
 CCBF
 CCBF
 CCBF
 CCBK
 CCBK
 CCBF
 CCBF
 CCBF
 CCBJ CCBL
 CCBJ CCBK

CCBL MAINT 01 H
 CCBL MAINT 02 H
 CCBL MAINT 03 H
 CCBL MAINT 04 H
 CCBL MAINT 05 H
 CCBL MAINT 06 H
 CCBL MAINT 07 H
 CCBL MAINT 08 H
 CCBL MAINT 09 H
 CCBL MAINT 10 H
 CCBL MAINT 11 H
 CCBL MAINT 12 H
 CCBL MAINT 13 H
 CCBL MAINT 14 H
 CCBL MAINT 15 H
 CCBL MAINT 04 L
 CCBL MAINT 05 L
 CCBL MAINT 06 L
 CCBL MAINT 07 L
 CCBL MAINT 12 L
 CCBL MAINT 13 L
 CCBL MAINT 14 L
 CCBL MAINT 15 L
 CCBL CLR MAINT L
 CCBL MAINT MODE H
 CCBL HIT REG 00 H
 CCBL HIT REG 01 H
 CCBL HIT REG 02 H
 CCBL HIT REG 03 H
 CCBL HIT REG 04 H
 CCBL HIT REG 05 H

ADML CCBF
 ADML CCBF
 ADML CCBF
 CCBF
 CCBF
 CCBF
 CCBF
 ADMK CCBF
 ADMK CCBF
 ADMK CCBF
 ADMK CCBF
 CCBF
 CCBF
 CCBF
 CCBF
 DTMN
 DTMN
 DTMN
 DTMN
 CDPF
 CDPF
 CDPF
 CDPF
 CCBL (3)
 CCBK
 CCBF CCBL
 CCBF CCBL
 CCBF CCBL
 CCBF CCBL
 CCBF

CCBM RANDOM (1) H
 CCBM VALID 0 IN PUT L
 ccbm valid 1 IN PUT L

ADMC AD MJ (2)
 ADMD ADMF

```
CCBM WR OK H
CCBM WRITE SEL 0 H
CCBM NON MBC READ
CCBM WRITE SEL 1 H
```

CCBE
ADMA DTMB
CCBC
ADMC DTMB

CDPB	EVEN	MUX	D00	L
CDPB	EVEN	MUX	D01	L
CDPB	EVEN	MUX	D02	L
CDPB	EVEN	MUX	D03	L
CDPB	EVEN	MUX	D04	L
CDPB	EVEN	MUX	D05	L
CDPB	EVEN	MUX	D06	L
CDPB	EVEN	MUX	D07	L

[illegible]

CDPB	EVEN	MUX	D08	L
CDPB	EVEN	MUX	D09	L
CDPB	EVEN	MUX	D10	L
CDPB	EVEN	MUX	D11	L
CDPB	EVEN	MUX	D12	L
CDPB	EVEN	MUX	D13	L
CDPB	EVEN	MUX	D14	L
CDPB	EVEN	MUX	D15	L
CDPB	S0	H		
CDPB	ODD	MUX	D16	L
CDPB	ODD	MUX	D17	L
CDPB	ODD	MUX	D18	L
CDPB	ODD	MUX	D19	L
CDPB	ODD	MUX	D20	L
CDPB	ODD	MUX	D21	L
CDPB	ODD	MUX	D22	L
CDPB	ODD	MUX	D23	L
CDPB	ODD	MUX	D24	L
CDPB	ODD	MUX	D25	L
CDPB	ODD	MUX	D26	L
CDPB	ODD	MUX	D27	L
CDPB	ODD	MUX	D28	L
CDPB	ODD	MUX	D29	L
CDPB	ODD	MUX	D30	L
CDPB	ODD	MUX	D31	L

[illegible]

```

CDPC START WRITE H
CDPC MBC DATA ENAB L
MAIN DATA BYTE 0 - 0L
MAIN DATA BYTE 0 - 1L
MAIN DATA BYTE 0 - 2L
MAIN DATA BYTE 0 - 3L
MAIN DATA BYTE 0 - 4L
MAIN DATA BYTE 0 - 5L
MAIN DATA BYTE 0 - 6L
MAIN DATA BYTE 0 - 7L
MAIN DATA BYTE 0 - 8L
CDPC CACHE DATA EN H
CDPC CACHE DATA EN L
CDPC MBC CYCLE L
CDPC MEM D00 H
CDPC MEM D01 H
CDPC MEM D02 H
CDPC MEM D03 H
CDPC MEM D04 H
CDPC MEM D05 H
CDPC MEM D06 H
CDPC MEM D07 H
CDPC MEM BYTE 0 PAR H
CDPC DATA RDY H
MAIN DATA BYTE 1 - 0L
MAIN DATA BYTE 1 - 1L

```

[illegible]

SOURCE

DESTINATION

MAIN DATA BYTE 1 - 2L
 MAIN DATA BYTE 1 - 3L
 MAIN DATA BYTE 1 - 4L
 MAIN DATA BYTE 1 - 5L
 MAIN DATA BYTE 1 - 6L
 MAIN DATA BYTE 1 - 7L
 MAIN DATA BYTE 1 - 8L
 CDPC MEM D08 H
 CDPC MEM D09 H
 CDPC MEM D10 H
 CDPC MEM D11 H
 CDPC MEM D12 H
 CDPC MEM D13 H
 CDPC MEM D14 H
 CDPC MEM D15 H
 CDPC MEM BYTE 1 PAR H

MXRA
 MXRA
 MXRA
 MXRA
 MXRA
 MXRA
 MXRA
 CDPA
 CDPA
 CDPA
 CDPA
 CDPA
 CDPA
 CDPA
 CDPA
 CDPA

CDPD MEM D16 H
 CDPD MEM D17 H
 CDPD MEM D18 H
 CDPD MEM D19 H
 CDPD MEM D20 H
 CDPD MEM D21 H
 CDPD MEM D22 H
 CDPD MEM D23 H
 CDPD MEM BYTE 2 PAR H
 CDPD OCC L

CDPA
 CDPA
 CDPA
 CDPA
 CDPA
 CDPA
 CDPA
 CDPA
 CDPA
 CDPA
 CDPA
 CDPC (2)

MAIN DATA BYTE 2 - 0L
 MAIN DATA BYTE 2 - 1L
 MAIN DATA BYTE 2 - 2L
 MAIN DATA BYTE 2 - 3L
 MAIN DATA BYTE 2 - 4L
 MAIN DATA BYTE 2 - 5L
 MAIN DATA BYTE 2 - 6L
 MAIN DATA BYTE 2 - 7L
 MAIN DATA BYTE 2 - 8L
 MAIN DATA BYTE 3 - 0L
 MAIN DATA BYTE 3 - 1L
 MAIN DATA BYTE 3 - 2L
 MAIN DATA BYTE 3 - 3L
 MAIN DATA BYTE 3 - 4L
 MAIN DATA BYTE 3 - 5L
 MAIN DATA BYTE 3 - 6L
 MAIN DATA BYTE 3 - 7L
 MAIN DATA BYTE 3 - 8L

MXRB
 MXRB
 MXRB
 MXRB
 MXRB
 MXRB
 MXRB
 MXRB
 MXRB
 MXRB
 MXRB
 MXRB
 MXRB
 MXRB
 MXRB
 MXRB
 MXRB

CDPD MEM D24 H
 CDPD MEM D25 H
 CDPD MEM D26 H
 CDPD MEM D27 H
 CDPD MEM D28 H
 CDPD MEM D29 H
 CDPD MEM D30 H
 CDPD MEM D31 H

CDPA
 CDPA
 CDPA
 CDPA
 CDPA
 CDPA
 CDPA
 CDPA
 CDPA

SOURCE

DESTINATION

CDPD MEM BYTE 3 PAR H

CDPA

CDPE WRITE MUX 00 H
 CDPE WRITE MUX 01 H
 CDPE WRITE MUX 02 H
 CDPE WRITE MUX 03 H
 CDPE WRITE MUX 04 H
 CDPE WRITE MUX 05 H
 CDPE WRITE MUX 06 H
 CDPE WRITE MUX 07 H
 CDPE WRITE MUX 08 H
 CDPE WRITE MUX 09 H
 CDPE WRITE MUX 10 H
 CDPE WRITE MUX 11 H
 CDPE WRITE MUX 12 H
 CDPE WRITE MUX 13 H
 CDPE WRITE MUX 14 H
 CDPE WRITE MUX 15 H

CDPB (2) CDPC CDPD CDPF
 CDPB (2) CDPC CDPD CDPF
 CDPB (2) CDPC CDPD CDPF
 CDPB (2) CDPC CDPD CDPF
 CDPB (2) CDPC CDPD CDPF
 CDPB (2) CDPC CDPD CDPF
 CDPB (2) CDPC CDPD CDPF
 CDPB (2) CDPC CDPD CDPF
 CDPB (2) CDPC CDPD CDPF
 CDPB (2) CDPC CDPD CDPF
 CDPB (2) CDPC CDPD CDPF
 CDPB (2) CDPC CDPD CDPF
 CDPB (2) CDPC CDPD CDPF
 CDPB (2) CDPC CDPD CDPF
 CDPB (2) CDPC CDPD CDPF
 CDPB (2) CDPC CDPD CDPF

CDPF MAIN HI PAR OK L
 CDPF MAIN LO PAR OK L
 CDPF WRITE MUX HI GEN H
 CDPF WRITE MUX LO GEN H
 CDPF MUX BYTE 0 PAR L
 CDPF MUX BYTE 1 PAR L
 CDPF MUX BYTE 2 PAR L
 CDPF MUX BYTE 3 PAR L

CCBK DTMM
 CCBK DTMM
 CDPC CDPD
 CDPC CDPD
 CDPF DTMD DTMJ DTMP
 CDPF DTMC DTMH DTMP
 CDPF DTME DTML DTMP
 CDPF DTME DTMH DTMP

CDPH A REQ L
 CDPH B REQ L
 CDPH C REQ L
 CDPH D REQ L
 CDPH BLOCK DL
 CDPH BLOCK CL
 CDPH BLOCK BL
 CDPH BLOCK AL

CDPJ
 CDPJ
 CDPJ
 CDPJ
 CDPH
 CDPH
 CDPH
 CDPH

CDPJ MBC REQ L
 CDPJ REQ CLK H
 CDPJ SELADRS CTRL A N
 CDPK SELADRS CTRL B H
 CDPJ SELADRS CTRL C H
 CDPJ SELADRS CTRL D H
 CDPJ SEL DATA CTRL A H
 CDPJ SEL DATA CTRL B H
 CDPJ SEL DATA CTRL C H
 CDPJ SEL DATA CTRL D H
 CDPJ INITAL
 CDPJ B LAST (1) H

CCBB

CDPH CDPK
 CDPH CDPK
 CDPH CDPK
 CDPH CDPK

CDPB (2) CDPE CDPH
 CDPJ

SOURCE

CDPJ B LAST (1) L
 CDPJ D LAST (1) H
 CDPJ D LAST (1) L
 CDPJ C OR D LAST (1) H
 CDPJ C OR D LAST (1) L

CDPK READ B L
 CDPK READ H
 CDPK MBC REQ ACKN H
 CDPK DATA RDY L
 CDPK RDY CLK.L
 CDPK DATA RDY CNTLA H
 CDPK RIPH
 CDPK RIPL
 CDPK DATA RDY CNTL B H
 CDPK DATA RDY CNTL C H
 CDPK DATA RDY CNTL D H

DTMA WRD 0 A02 H
 DTMA WRD 1 A02 H
 DTMA WRD 2 A02 H
 DTMA WRD 3 A02 H
 DTMA WRD 0 A03 H
 DTMA WRD 1 A03 H
 DTMA WRD 2 A03 H
 DTMA WRD 3 A03 H
 DTMA WRD 0 A04 H
 DTMA WRD 1 A04 H
 DTMA WRD 2 A04 H
 DTMA WRD 3 A04 H
 DTMA WRD 0 A05 H
 DTMA WRD 1 A05 H
 DTMA WRD 2 A05 H
 DTMA WRD 3 A05 H
 DTMA WRD 0 A06 H
 DTMA WRD 1 A06 H
 DTMA WRD 2 A06 H
 DTMA WRD 3 A06 H
 DTMA WRD 0 A07 H
 DTMA WRD 2 A07 H
 DTMA WRD 3 A07 H

DESTINATION

CDPJ
 CDPJ
 CDPJ
 CDPJ
 CDPJ

CDPC (3)
 CDPB (2) CDPK
 CDPK
 CDPK
 CCBE

 CCBD CCBE
 CDPA

DTMC (2) DTMD (2)
 DTME (2) DTMF (2)
 DTMH (2) DTMJ (2)
 DTMK (2) DTML (2)
 DTMC (2) DTMD (2)
 DTME (2) DTMF (2)
 DTMH (2) DTMJ (2)
 DTMK (2) DTML (2)
 DTMC (2) DTMD (2)
 DTME (2) DTMF (2)
 DTMH (2) DTMJ (2)
 DTMK (2) DTML (2)
 DTMC (2) DTMD (2)
 DTME (2) DTMF (2)
 DTMH (2) DTMJ (2)
 DTMK (2) DTML (2)
 DTMC (2) DTMD (2)
 DTME (2) DTMF (2)
 DTMH (2) DTMJ (2)
 DTMK (2) DTML (2)

SOURCE

DESTINATION

DTMA WRD 0 A08A
 DTMA WRD 1 A08H
 DTMA WRD 2 A08H
 DTMA WRD 3 A08H
 DTMA WRD 0 A09H
 DTMA WRD 1 A09H
 DTMA WRD 2 A00H
 DTMA WRD 3 S09H

DTMC (2) DTMD (2)
 DTME (2) DTMF (2)
 DTMH (2) DTMJ (2)
 DTMK (2) DTML (2)
 DTMC (2) DTMD (2)
 DTME (2) DTMF (2)
 DTMH (2) DTMJ (2)
 DTMK (2) DTML (2)

DTMB READ H
 DTMB WRITE H
 DTMB A01L
 DTMB CS0L
 DTMB CS1L
 DTMB CS2L
 DTMB CS3L
 DTMB LO BYTE WP0*1L
 DTMB HI BYTE WP0*1L
 DTMB LO BYTE WP2*3L
 DTMB HI BYTE WP2*3L

 DTMM
 DTMC (2) DTMD (2)
 DTME (2) DTMF (2)
 DTMH (2) DTMJ (2)
 DTMK (2) DTML (2)
 DTMD (2) DTMF (2)
 DTMC (2) DTME (2)
 DTMH (2) DTMJ (2)
 DTMK (2) DTML (2)

DTMC + E GRP0 D15H
 DTMC + E GRP0 D14H
 DTMC + E GRP0 D13H
 DTMC + E GRP0 D12H
 DTMC + E GRP0 D11H
 DTMC + E GRP0 D10H
 DTMC + E GRP0 D09H
 DTMC + E GRP0 D08H
 DTMC + E GRP0 HI PAR H

DTMM DTMN
 DTMM DTMN
 DTMM DTMN
 DTMM DTMN
 DTMM DTMN
 DTMM DTMN
 DTMM DTMN
 DTMM DTMN
 DTMM DTMN

DTMD + F GRP0 D07H
 DTMD + F GRP0 D06H
 DTMD + F GRP0 D05H
 DTMD + F GRP0 D04H
 DTMD + F GRP0 D03H
 DTMD + F GRP0 D02H
 DTMD + F GRP0 D01H
 DTMD + F GRP0 D00H
 DTMD + F GRP0 LO PAR H

DTMM DTMN
 DTMM DTMN
 DTMM DTMN
 DTMM DTMN
 DTMM DTMN
 DTMM DTMN
 DTMM DTMN
 DTMM DTMN
 DTMM DTMN

SOURCE

DESTINATION

DTMC + E GRPØ D15H
DTMC + E GRPØ D14H
DTMC + E GRPØ D13H
DTMC + E GRPØ D12H
DTMC + E GRPØ D11H
DTMC + E GRPØ D1ØH
DTMC + E GRPØ DØ9H
DTMC + E GRPØ DØ8H
DTMC + E GRPØ HI PAR H

DTMM DTMN
DTMM DTMN
DTMM DTMN
DTMM DTMN
DTMM DTMN
DTMM DTMN
DTMM DTMN
DTMM DTMN
DTMM DTMN

DTMD + F GRPØ DØ7H
DTMD + E GRPØ DØ6H
DTMD + F GRPØ DØ5H
DTMD + F GRPØ DØ4H
DTMD + F GRPØ DØ3H
DTMD + F GRPØ DØ2H
DTMD + F GRPØ DØ1H
DTMD + F GRPØ DØØH
DTMD + F GRPØ LO PAR H

DTMM DTMN
DTMM DTMN
DTMM DTMN
DTMM DTMN
DTMM DTMN
DTMM DTMN
DTMM DTMN
DTMM DTMN
DTMM DTMN

DTMH + F GRP1 D15H
DTMH + F GRP1 D14H
DTMH + F GRP1 D13H
DTMH + F GRP1 D12H
DTMH + F GRP1 D11H
DTMH + F GRP1 D1ØH
DTMH + F GRP1 DØ9H
DTMH + F GRP1 DØ8H
DTMH + K GRP1 HI PARH

DTMM DTMN
DTMM DTMN
DTMM DTMN
DTMM DTMN
DTMM DTMN
DTMM DTMN
DTMM DTMN
DTMM DTMN
DTMM DTMN

DTMJ + L GRP1 DØ6H
DTMJ + L GRP1 DØ6H
DTMJ + L GRP1 DØ5H
DTMJ + L GRP1 DØ4H
DTMJ + L GRP1 DØ3H
DTMJ + L GRP1 DØ2H
DTMJ + L GRP1 DØ1H
DTMJ + L GRP1 DØØH
DTMJ + L GRP1 LO PARH

DTMM DTMN
DTMM DTMN
DTMM DTMN
DTMM DTMN
DTMM DTMN
DTMM DTMN
DTMM DTMN
DTMM DTMN
DTMM DTMN

SOURCE

DESTINATION

DTMH + K GRP1 D15H
DTMH + K GRP1 D14H
DTMH + K GRP1 D13H
DTMH + K GRP1 D12H
DTMH + K GRP1 D11H
DTMH + K GRP1 D10H
DTMH + K GRP1 D09H
DTMH + K GRP1 D08H
DTMH + K GRP1 HI PARH

DTMM DTMN
DTMM DTMN
DTMM DTMN
DTMM DTMN
DTMM DTMN
DTMM DTMN
DTMM DTMN
DTMM DTMN
DTMM DTMN

DTMJ + L GRP1 D07H
DTMJ + L GRP1 D06H
DTMJ + L GRP1 D05H
DTMJ + L GRP1 D04H
DTMJ + L GRP1 D03H
DTMJ + L GRP1 D02H
DTMJ + L GRP1 D01H
DTMJ + L GRP1 D00H
DTMJ + L GRP1 LO PARH

DTMM DTMN
DTMM DTMN
DTMM DTMN
DTMM DTMN
DTMM DTMN
DTMM DTMN
DTMM DTMN
DTMM DTMN
DTMM DTMN

DTMM CDMX D00H
DTMM CDMX D01H
DTMM CDMX D02H
DTMM CDMX D03H
DTMM CDMX D04H
DTMM CDMX D05H
DTMM CDMX D06H
DTMM CDMX D07H
DTMM CDMX D08H
DTMM CDMX D10H
DTMM CDMX D11H
DTMM CDMX D12H
DTMM CDMX D13H
DTMM CDMX D14H
DTMM CDMX D15H
DTMM HI BYTE PARH
DTMM LO BYTE PARH
DTMM BAD PARITY H

PDRA MAPH
PDRA MAPH
PDRA MAPH
PDRA MAPH
PDRA MAPH
PDRA MAPH
PDRA MAPH
PDRA MAPH
PDRA MAPH
PDRA MAPH
PDRA MAPH
PDRA MAPH
PDRA MAPH
PDRA MAPH
PDRA MAPH
PDRB
PDRB
CCBC CCBJ MAPH

SOURCE:

DESTINATION

DTMN GRPØ HI PAR H
DTMN DATA PAR Ø OKL

CCBC (2) CCBD CCBK
CCBM DTMM (2)

```
DTMM GRP0 LO PAR H
DTMM GRP1 HI PAR H
DTMM GRP0 HI PAR H
DTMM DATA PAR1 OKL
```

CCBC (2) CCBD CCBK CCBM

DTMP	EVEN	MUX	00	H
DTMP	EVEN	MUX	01	H
DTMP	EVEN	MUX	02	H
DTMP	EVEN	MUX	03	H
DTMP	EVEN	MUX	04	H
DTMP	EVEN	MUX	05	H
DTMP	EVEN	MUX	06	H
DTMP	EVEN	MUX	07	H
DTMP	EVEN	MUX	08	H
DTMP	EVEN	MUX	09	H
DTMP	EEN	MUX	10	H
DTMP	EVEN	MUX	11	H
DTMP	EVEN	MUX	12	H
DTMP	EVEN	MUX	13	H
DTMP	EVEN	MUX	14	H
DTMP	EVEN	MUX	15	H
DTMP	ODD	MUX	16	H
DTMP	ODD	MUX	17	H
DTMP	ODD	MUX	18	H
DTMP	ODD	MUX	19	H
DTMP	ODD	MUX	20	H
DTMP	ODD	MUX	21	H
DTMP	ODD	MUX	22	H
DTMP	ODD	MUX	23	H
DTMP	ODD	MUX	24	H
DTMP	ODD	MUX	25	H
DTMP	ODD	MUX	26	H
DTMP	ODD	MUX	27	H
DTMP	ODD	MUX	28	H
DTMP	ODD	MUX	29	H
DTMP	ODD	MUX	30	H
DTMP	ODD	MUX	31	H
DTMP	BYTE	3	PARH	
DTMP	BYTE	2	PARH	
DTMP	BYTE	1	PARH	
DTMP	BYTE	0	PARH	

[illegible]

SOURCE

SAPA + B + C PAF 21 H
SAPA + B + C PAF 20 H
SAPA + B + C PAF 19 H
SAPA + B + C PAF 18 H
SAPA + B + C PAF 17 H
SAPA + B + C PAF 16 H
SAPA + B + C PAF 15 H
SAPA + B + C PAF 14 H
SAPA + B + C PAF 13 H
SAPA + B + C PAF 12 H
SAPA + B + C PAF 11 H
SAPA + B + C PAF 10 H
SAPA + B + C PAF 09 H
SAPA + B + C PAF 08 H
SAPA + B + C PAF 07 H
SAPA + B + C PAF 06 H
SAPA WRITE LO BYTE KPAR L
SAPA WRITE HI BYTE KPAR L
SAPA APR ADDR3 H
SAPA APR ADDR2 H
SAPA APR ADDR1 H
SAPA APR ADDR0 H

SAPB WRITE LO BYTE SPARL
SAPB WRITE HI BYTE SPARL
SAPB INITA BL
SAPB APR ADDR3 SA H
SAPB APR ADDR2 H

SAPB APR ADDR1 H
SAPB APR ADDRØ H
SAPA + B + C PAF 21 H
SAPA + B + C PAF 20 H
SAPA + B + C PAF 19 H
SAPA + B + C PAF 18 H
SAPA + B + C PAF 17 H
SAPA + B + C PAF 16 H
SAPA + B + C PAF 15 H
SAPA + B + C PAF 14 H
SAPA + B + C PAF 13 H
SAPA + B + C PAF 12 H
SAPA + B + C PAF 11 H
SAPA + B + C PAF 10 H
SAPA + B + C PAF 09 H
SAPA + B + C PAF 08 H
SAPA + B + C PAF 07 H
SAPA + B + C PAF 06 H

DESTINATION[illegible]

SAPC SAPD SAPK

[illegible]

SOURCE

DESTINATION

```

SAPC WRITE LO BYTE UPAR L
SAPC WRITE HI BYTE UPAR L
SAPC APR ADDRØ H
SAPC APR ADDR1 H
SAPC APR ADDR2 H
SAPC APR ADDR3 UA H
SAPC PULSE BC9C H
SAPC PULSE BC9B H
SAPC PULSE BC9D H
SAPA + B + C PAF 21 H
SAPA + B + C PAF 20 H
SAPA + B + C PAF 19 H
SAPA + B + C PAF 18 H
SAPA + B + C PAF 17 H
SAPA + B + C PAF 16 H
SAPA + B + C PAF 15 H
SAPA + B + C PAF 14 H
SAPA + B + C PAF 13 H
SAPA + B + C PAF 12 H
SAPA + B + C PAF 11 H
SAPA + B + C PAF 1Ø H
SAPA + B + C PAF Ø9 H
SAPA + B + C PAF Ø8 H
SAPA + B + C PAF Ø7 H
SAPA + B + C PAF Ø6 H

```

```
SAPD BUSTC (1) H
SAPD ATTN (1) H
SAPD ATTN (Ø) H
SAPD WRTM INTØ (1) H
SAPD WRTM INTØ (Ø) H
SAPD + E + F RAM WRTN INTO H
SAPD + E + F RAM ATTN H
SAPD WR A + W L
SAPD WRITE LO BYTE KPDR L
SAPD WRITE HI BYTE KPDR L
SAPD PGE EXPN DOWN L
SAPD ACF2 L
SAPD "1"
" " Ø"
SAPD MMWC L
" " AF L
SAPD GATE ATTN H
SAPD ATTN DATA L
SAPD WRTN DATA L
SAPD APR ADDR3 KD H
```

[illegible]

 SAPD

 SAPD
 SAPM
 SAPM
 SAPE SAPF

 SAPL
 SAPL (3)
 SAPL (4)
 SAPL (2)

 SAPE SAPF
 SAPE SAPF

SOURCE	DESTINATION
SAPD SPR ADDR2 H	----
SAPD SPR ADDR1 H	----
SAPD APR ADDRØ H	----
SAPD BR15 LL	SAPA SAPB SAPC SAPE SAPF
SAPD BR14 LL	SAPA SAPB SAPC SAPE SAPF
SAPD BR13 LL	SAPA SAPB SAPC SAPE SAPF
SAPD BR12 LL	SAPA SAPB SAPC SAPE SAPF
SAPD + E + F PLFEH	SAPM
SAPD + E + E PLF6H	SAPL SAPM
SAPD + E + F PLF5H	SAPL SAPM
SAPD + E + F PLF4H	SAPL SAPM
SAPD + E + F PLF3H	SAPL SAPM
SAPD + E + F PLF2H	SAPL SAPM
SAPD + E + F PLF1H	SAPL SAPM
SAPD + E + F PLFØH	SAPL SAPM
SAPD + E + F PGE EXPN DOWN H	SAPL SAPM
SAPD + E + E ACF2 H	SAPL (2) SAPM
SAPD + E + F ACF1 H	SAPL (2) SAPM
SAPD + E + F ACFØ H	SAPL (4) SAPM
SAPE WRITE LO BYTE SPDR L	----
SAPE WRITE HI BYTE SPDR L	----
SAPE APR ADDR3 SD H	----
SAPE APR ADDR2 H	----
SAPE APR ADDR1 H	----
SAPE APR ADDRØ H	----
SAPE USER PAR L	SAPC
SAPE SUPER PAR L	SAPB
SAPE KERNEL PAR L	SAPA
SAPE USER CS L	SAPF
SAPE SUPER CS L	SAPE
SAPE KERNEL CS L	SAPD
SAPE BUF INT REG L	----
SAPD + E + F PLFE H	SAPM
SAPD + E + F PLF6 H	SAPL SAPM
SAPD + E + F PLF5 H	SAPL SAPM
SAPD + E + F PLF4 H	SAPL SAPM
SAPD + E + F PLF3 H	SAPL SAPM
SAPD + E + F PLF2 H	SAPL SAPM
SAPD + E + F PLF1 H	SAPL SAPM
SAPD + E + F PLFØ H	SAPL SAPM
SAPD + E + F RAM ATTN H	SAPM
SAPD + E + F WRTN INTO H	SAPM
SAPD + E + F PGE EXPN DOWN H	SAPL SAPM
SAPD + E + F ACF2 H	SAPL (2) SAPM
SAPD + E + F ACF1 H	SAPL (2) SAPM
SAPD + E + E ACFØ H	SAPL (4) SAPM

SOURCE

DESTINATION

SAPF WRITE LO BYTE UPPDRL
 SAPF WRITE HI BYTE UPPDRL
 SAPD + E + F PLF6 H
 SAPD + E + F PLF5 H
 SAPD + E + F PLF4 H
 SAPD + E + F PLF3 H
 SAPD + E + F PLF2 H
 SAPD + E + F PLF1 H
 SAPD + E + F PLF0 H
 SAPD + E + F RAM ATTN H
 SAPD + E + F WRTN INTO H
 SAPD + E + F PGE EXPN DOWN H
 SAPD + E + F ACF2 H
 SAPD + E + F ACF1 H
 SAPD + E + F ACF0 H
 SAPF APR ADDR3 UD H
 SAPF APR ADDR2 H
 SAPF APR ADDR1 H
 SAPF APR ADDR0 H

SAPH VA15 BH
 SAPH VA14 BH
 SAPH VA13 BH
 SAPH VA12 BH
 SAPH VA11 BH
 SAPH VA10 BH
 SAPH VA09 BH
 SAPH VA08 BH
 SAPH EX MEM FLAG H
 SAPH VA07 BH
 SAPH VA06 BH
 SAPH VA05 BH
 SAPH VA03 BH
 SAPH VA02 BH
 SAPH VA01 BH

SAPJ COUT BL
 SAPJ ADRS13H
 SAPJ PA12H
 SAPJ PA11H
 SAPJ PA10H
 SAPJ PA09H
 SAPJ PA08H
 SAPJ PA07H
 SAPJ PA06H
 SAPJ RELOC H
 SAPJ RELOC BH
 SAPJ SEL1 H
 SAPJ SEL0 H

 SAPM
 SAPL SAPM
 SAPL SAPM
 SAPL SAPM
 SAPL SAPM
 SAPL SAPM
 SAPL SAPM
 SAPL SAPM
 SAPM
 SAPM
 SAPL SAPM
 SAPL (2) SAPM
 SAPL (2) SAPM
 SAPL (4) SAPM

SAPH SAPJ SSRH
 SAPH SAPJ SSRH
 SAPH SAPJ SSRH
 SAPJ SAPL SAPN
 SAPJ SAPL SAPN
 SAPJ SAPL SAPN
 SAPJ SAPL SAPN
 SAPJ SAPL SAPN
 SAPJ (2) SPN SCCE
 SAPJ SAPL SAPN
 SAPJ SAPL SAPN
 TMCD SAPM
 SAPK (2) SSRH
 SAPK (2) SSRH
 SAPK (2) SSRH

SAPL
 SAPJ (2) SAPN
 ADMF SCCA SCCE
 ADME SCCA
 ADME SCCA SCCE
 ADME SCCA
 ADME SCCA
 ADME SCCA
 ADME SCCA
 SAPD SAPJ
 SAPJ (2)
 SAPN
 SAPN (2)

SOURCE

DESTINATION

SAPJ 22 BIT MAPPING H
 SAPJ SEL1 L
 SAPJ SELØ L
 SAPJ PA <21:18> H
 SAPJ 22 BIT WRAPAROUND L
 SAPJ ADRS21 H
 SAPJ ADRS20 H
 SAPJ ADRS19 H
 SAPJ ADRS18 H
 SAPJ 18 BIT WRAPAROUND L
 SAPJ PA <18:14> H
 SAPJ 18 BIT UBADRS H
 SAPJ ADRS17 H
 SAPJ ADRS16 H
 SAPJ ADRS15 H
 SAPJ ADRS14 H
 SAPJ PA21 H
 SAPJ PA20 H
 SAPJ PA19 H
 SAPJ PA18 H
 SAPJ PA17 H
 SAPJ PA16 H
 SAPJ PA15 H
 SAPJ PA14 H
 SAPJ PA13 H

SAPK DSK H
 SAPK DSS H
 SAPK DSU H
 SAPK APR ADDR3 KL
 SAPK APR ADDR3 KL
 SAPK APR ADDR3 UL
 SAPK BR11CL

SAPK BR1ØCL
 SAPK BRØ9CL
 SAPK BRØ8CL
 SAPK I SPACEB(Ø)H
 SAPK I SPACEA(Ø)H
 SAPK C1BL
 SAPK BRØ7 CL
 SAPK BRØ6 CL
 SAPK BRØ5 CL
 SAPK BRØ4 CL

SAPN
 SAPJ (2) SAPN (2)
 SAPJ SAPN
 SAPN
 SAPN
 SCCK
 SCCK
 SCCK
 SCCK
 SAPN
 SAPJ SAPN

 SCCK
 SCCK
 SAPJ
 SAPJ
 ADMF
 ADMF
 ADMF
 ADMF
 ADMF SCCB SCCL
 ADMF SCCB SCCL
 ADMF SCCA SCCB SCCL
 ADMF SCCA SCCB SCCL
 ADMF SCCA SCCB SCCL

SAPK
 SAPK
 SAPK
 SAPA SAPD
 SAPB SAPE
 SAPC SAPF
 SAPA SAPB SAPC SAPD SAPE
 SAPF
 SAPA SAPB SAPC SAPD SAPE SAPF
 SAPA SAPB SAPC SAPD SAPE SAPF
 SAPA SAPB SAPC SAPD SAPE SAPE
 SAPK
 SAPK
 SAPL
 SAPA SAPB SAPC
 SAPA SAPB SAPC
 SAPA SAPB SAPC
 SAPA SAPB SAPC

SOURCE	DESTINATION
SAPK C1 BH	----
SAPK USER SPACE H	----
SAPK KERNEL SPACE H	----
SAPK SUPER SPACE H	----
SAPK APR ADDR2 L	SAPA SAPB SAPC SAPD SAPE SAPF
SAPK APR ADDR1 L	SAPA SAPB SAPC SAPD SAPE SAPF
SAPK APR ADDR0 L	SAPA SAPB SAPC SAPD SAPE SAPF
SAPK WR OKB H	SAPD D
SAPK WR OKA H	SAPD SAPE SAPF
SAPK WR OK H	SAPA SAPB SAPC SAPD
SAPK IND DATA H	SCCJ SSRB
SARK IND DATA L	----
SARK HI BYTE BH	SAPA SAPB SAPC SAPD SAPE SAPF
SARK REG WR PULSE H	SCCL
SAPK LO BYTE BH	SAPA SAPB SAPC SAPD SAPE SAPF
SARK BR00 CL	SAPA SAPB SAPC SAPD SAPE SAPF
SAPK BR01 CL	SAPA SAPB SAPC SAPD SAPE SAPF
SAPK BR02 CL	SAPA SAPB SAPC SAPD SAPE SAPF
SAPK BR03 CL	SAPA SAPB SAPC SAPD SAPE SAPF
SAPK APR ADDRA2 L	SAPA SAPB SAPC
SAPK APR ADDRA1 L	SAPA SAPB SAPC
SAPK APR ADDRA0 L	SAPA SAPB SAPC
SAPL KEY=1.W1L	----
SAPL KEY=4 L	----
SAPL KEY=5WR L	----
SAPL MEM MGMT H	SAPD SSRD
SAPL LENGTH FAULT L	SSRC
SAPL LENGTH FAULT H	SSRC (2)
SAPL ABORT COND H	SSRC
SAPL NONRES FAULT H	SAPL
SAPL WRITE CYCLE L	SAPD SAPL
SAPL WRITE CYCLE H	----
SAPL DATIP L	----
SAPL KEY=1WRL	----
SAPL KEY=2WRL	----
SAPL READ ONLY FAULT H	SSRC
SAPL READ ONLY FAULT L	SAPL
SAPM APR BIT15 H	SSRJ
SAPM APR BIT14 H	SSRJ

SOURCE

DESTINATION

SAPM APR BIT13 H
 SAPM APR BIT12 H
 SAPM APR BIT11 H
 SAPM APR BIT10 H
 SAPM APR BIT09 H
 SAPM APR BIT08 H
 SAPM APR BIT07 H
 SAPM APR BIT06 H
 SAPM APR BIT05 H
 SAPM APR BIT04 H
 SAPM APR BIT03 H
 SAPM APR BIT02 H
 SAPM APR BIT01 H
 SAPM APR BIT00 H

SSRJ
 SSRJ
 SSRJ
 SSRJ
 SSRJ
 SSRJ
 SSRJ
 SSRJ
 SSRJ
 SSRJ
 SSRJ
 SSRJ
 SSRJ

SAPN ADRS OVERFLOW H
 SAPN 18 BIT OVERFLOW H
 SAPN 16 BIT MAPPING H
 SAPN SR <21:18> H
 SAPN NOT CACHE ADRS H
 SAPN UB ADRS L
 SAPN UNIBUS ADRS L

SAPN
 SAPN

 TIGA*TMCC TMCF

 TMCC SCCB SCCE SSRC UBCL

SCCA VA12 A L
 SCCA VA12 A H
 SCCA VA11 A L
 SCCA VA11 A H
 SCCA VA10 A L
 SCCA VA10 A H
 SCCA VA09 A L
 SCCA VA09 A H
 SCCA VA08 A L
 SCCA VA08 A H
 SCCA VA07 A L
 SCCA VA07 A H
 SCCA VA06 A L
 SCCA VA06 A H
 SCCA VA05 A L
 SCCA VA05 A H
 SCCA VA04 A L
 SCCA VA04 A H

SCCK
 SCCE
 SCCK
 SCCE
 SCCK
 SCCE
 SCCK
 SCCE
 SCCK
 SCCE
 SCCK
 SCCE
 SCCK
 SCCE
 SCCB
 SCCB SCCE (2) SCCF SCCL
 SCCB
 SCCB SCCE (2) SCCF SCCL

SOURCE

DESTINATION

SCCA VA03 A L
 SCCA VA03 A H
 SCCA VA02 A L
 SCCA VA02 A H
 SCCA VA01 A L
 SCCA VA01 A H
 SCCA VA00 A L
 SCCA VA00 A H
 SCCA PA15 L
 SCCA PA14 L
 SCCA PA13 L
 SCCA PA12 L
 SCCA PA11 L
 SCCA PA11 BH
 SCCA PA10 L
 SCCA PA10BH
 SCCA PA09 L
 SCCA PA09 BH
 SCCA PA08 L
 SCCA PA08 BH
 SCCA PA07 L
 SCCA PA07 BH
 SCCA PA06 L
 SCCA PA06 BH
 SCCA VA15 CL
 SCCA VA14 CL
 SCCA VA13 CL

SCCE (2)
 SCCB (2) SCCE (2) SCCJ SCCL
 SCCB (2)
 SCCB SCCE (2) SCCJ SCCL
 SCCB (2)
 SCCB SCCE (2) SCCJ SCCL

 SCCJ SCCL UBCB
 SCCK
 SCCK
 SCCK
 SCCK
 SCCB SCCE SCCK
 SCCB SCCL
 SCCK
 SCCL
 SCCB SCCK
 SCCB SCCE SCCL
 SCCB SCCK
 SCCB (2) SCCF SCCL
 SCCB SCCK
 SCCB (2) SSCE SCCL
 SCCB (2) SCCK
 SCCB (2) SCCE SCCL
 SCCK SCCN
 SCCK SCCN
 SCCK SCCN

SCCB UNIBUS ADRS H
 SCCB UBREF L
 SCCB UBREF H
 SCCB PA <8:6> =5 H
 SCCB PAR ADRS H
 SCCB PDR ADRS H
 SCCB USER PAR ADRS L
 SCCB USER PDR ADRS L
 SCCB SW REG ADRS L
 SCCB MMR ADRS L
 SCCB SWR+MMR ADRS L
 SCCB SUPER PAR ADRS L
 SCCB SUPER PDR ADRS L
 SCCB KERNEL PAR ADRS L
 SCCB KERNEL PDR ADRS L
 SCCB MMR3 ADRS L

 SCCE

 SCCB
 SCCB (2)

 SCCB SCCD
 SCCB SCCD
 SCCC
 SCCC
 SCCD
 SCCC SCCD
 SCCC SCCD
 SCCC SCCD
 SCCC SCCD
 SCCC SCCD

SOURCE

SCCC USER PAR (1) H
 SCCC USER PAR (Ø) H
 SCCC USER PDR (1) H
 SCCC USER PDR (0) H
 SCCC SUPER PAR(1) H
 SCCC SUPER PAR(Ø) H
 SCCC SUPER PDR(1) H
 SCCC SUPER PDR(Ø) H
 SCCC KERNEL PAR (1) H
 SCCC KERNEL PAR (0) H
 SCCC KERNEL PDR (1) H
 SCCC KERNEL PDR (Ø) H
 SCCC INT REG H
 SCCC INT REG A L
 SCCC INT REG B L
 SCCC C1BL
 SCCC MMR REG (1) H
 SCCC MMR REG (Ø) H
 SCCC WRITE MMRØ REG H
 SCCC MMR3 (1) H
 SCCC MMR3 (Ø) H
 SCCC READ MMR3 L
 SCCC SW REG (Ø) H
 SCCC SW REG L
 SCCD APR REG H
 SCCD INT REG ADRS H
 SCCD APR REG L
 SCCD INTD REG (1) L
 SCCD INTD REL
 SCCD INITA B L
 SCCD INT CLR AL
 SCCD INT CLR BL

SCCE SYS INT REG L
 SCCE INTERNAL ADRS H
 SCCE STACK OVERFLOW H
 SCCE PS ADRS H
 SCCE SL ADRS H
 SCCE PIR ADRS H
 SCCE PB ADRS H
 SCCE ERR REG ADRS L
 SCCE ERR REG ADRS H
 SCCE SYS ID ADRS L
 SCCE SYS SIZH ADRS L
 SCCE SYS SIZL ADRS L

DESTINATION

SAPC
 SAPE (2) SCCD
 SAPF
 SAPE SCCD
 SAPB
 SAPE (2) SCCD
 SAPE
 SAPE SCCD
 SAPA
 SAPE (2) SCCD
 SAPD
 SAPE SCCD
 SAPD SAPE SAPN SSRJ

 SAPD (2) SSRC SSRD
 SCCC SCCM SCCN
 SSRJ (2)
 SCCC
 SSRC SSRE
 SCCC
 SCCC SSRJ
 SCCH
 SCCH (2)

 SAPD

 SSRJ (2)
 TIGA TMTF UBCA (2)
 SCCM SCCN
 SCCF SCCK SCCL
 SCCC (2)
 SCCC SCCD

SCCD
 TMCD UBCC
 TMCD
 TMCD TMTF UBCB
 TMCD TMTF
 TMCD TMTF
 TMCD TMTF
 SCCM (2)
 TMCD
 SCCM (2)
 SCCM (2)
 SCCM (2)
 SCCM (2)

SOURCE	DESTINATION
SCCF CNSL CLR L	---
SCCF REG EXAM H	UBCF
SCCF REG DEP H	UBCF
SCCF EXAM H	UBCF
SCCF DEP H	UBCF
SCCF DISP ADRS04 H	SCCJ
SCCF DISP ADRS05 H	SCCJ
SCCF GEN REG (1) H	SCCF SCCK
SCCF GEN REG (0) H	SCCF SCCK
SCCF GEN REG ADRS H	---
SCCF IND 16 BIT MAPPING H	SCCJ
SCCF IND 18 BIT MAPPING H	SCCJ
SCCF IND 22 BIT MAPPING H	SCCJ
SCCF CONT H	TIGB UBCF
SCCF START H	UBCF (2)
SCCF SINGLE CYCLE H	TIGB UBCF
SCCF HALT H	TIGB UBCE UBCF
SCCF LOAD ADRS H	UBCF
SCCF IND ADRS ERR H	SCCF
SCCH ENAB INTD DATA H	SCCH
BUS INTD15 L	PDRA
BUS INTD14 L	PDRA
BUS INTD13 L	PDRA
BUS INTD12 L	PDRA
BUS INTD11 L	PDRA
BUS INTD10 L	PDRA
BUS INTD09 L	PDRA
BUS INTD08 L	PDRA
BUS INTD07 L	PDRA
BUS INTD06 L	PDRA
BUS INTD05 L	PDRA
BUS INTD04 L	PDRA
BUS INTD03 L	PDRA
BUS INTD02 L	PDRA
BUS INTD01 L	PDRA
BUS INTD00 L	PDRA
SCCJ SWR00 H	SCCH
SCCJ SWR01 H	SCCH
SCCJ SWR02 H	SCCH
SCCJ SWR03 H	SCCH
SCCJ SWR04 H	SCCF SCCH
SCCJ SWR05 H	SCCF SCCH
SCCJ SWR06 H	SCCF SCCH
SCCJ SWR07 H	SCCF SCCH

SOURCE

DESTINATION

SCCJ SWR08 H
 SCCJ SWR09 H
 SCCJ SWR10 H
 SCCJ SWR11 H
 SCCJ SWR12 H
 SCCJ SWR13 H
 SCCJ SWR14 H
 SCCJ SWR15 H
 SCCJ SWR16 H
 SCCJ SWR17 H
 SCCJ SWR18 H
 SCCJ SWR19 H
 SCCJ SWR20 H
 SCCJ SWR21 H
 SCCJ CONT SW H
 SCCJ SGL BUS CYC SW H
 SCCJ LOAD ADRS SW H
 SCCJ START SW H
 SCCJ EXAM SW H
 SCCJ DEP SW H
 SCCJ HALT SW H
 SCCJ DISP ADRS SEL0 H
 SCCJ DISP ADRS SEL1 H
 SCCJ PNL LOCK H
 SCCJ DISP ADRS SELZ H

SCCF SCCH
 SCCF SCCH
 SCCF SCCH
 SCCF SCCH
 SCCF SCCH
 SCCF SCCH
 SCCJ SCCH
 SCCF SCCH
 SCCF SCCH
 SCCF SCCH
 SCCF SCCH
 SCCF SCCH
 SCCF SCCH
 SCCF (2)
 SCCF
 SCCF (2)
 SCCF
 SCCF
 SCCF
 SCCF
 SSRK
 SSRK

 SSRK

SCCK DISP ADRS15 H
 SCCK DISP ADRS14 H
 SCCK DISP ADRS13 H
 SCCK DISP ADRS12 H
 SCCK DISP ADRS11 H
 SCCK DISP ADRS10 H
 SCCK DISP ADRS09 H
 SCCK DISP ADRS08 H
 SCCK DISP ADRS07 H
 SCCK DISP ADRS06 H
 SCCK ROM10 L
 SCCK SR CLR L
 SCCK SWR21 B (1) H
 SCCK SWR20 B (1) H
 SCCK SWR10 B (1) H
 SCCK SWR18 B (1) H
 SCCK SWR17 B (1) H

SCCJ
 SCCJ
 SCCJ
 SCCJ
 SCCJ
 SCCJ
 SCCJ
 SCCJ
 SCCJ
 SCCJ

 SAPJ SAPN SCCN
 SAPJ SAPN SCCN
 SAPJ SAPN SCCN
 SAPJ SAPN SCCH
 SAPJ SCCN

SOURCE

DESTINATION

SCCK SWR16 B (1) H
 SCCK DISP ADRS21 H
 SCCK DISP ADRS20 H
 SCCK DISP ADRS19 H
 SCCK DISP ADRS 18 H
 SCCK DISP ADRS 17 H
 SCCK DISP ADRS 16 H

SAPJ SCCN
 SCCJ
 SCCJ
 SCCJ
 SCCJ
 SCCJ
 SCCJ

SCCL BR00 C H
 SCCL BR01 C H
 SCCL BR02 C H
 SCCL BR04 C H
 SCCL MMR3 CLK L
 SCCL ENAB UB MAP H
 SCCL ENAB 22BIT MAPPING H
 SCCL ENBL D K (1) H
 SCCL ENBL D S (1) H
 SCCL ENBL D U (1) H
 BUS A17 L
 BUS A16 L
 BUS A15 L
 BUS A14 L
 BUS A13 L
 BUS A12 L
 BUS A11 L
 BUS A10 L
 BUS A09 L
 BUS A08 L
 BUS A07 L
 BUS A06 L
 BUS A05 L
 BUS A04 L
 BUS A03 L
 BUS A02 L
 BUS A01 L
 BUS A00 L

MAPD SCCH
 SAPJ SCCF SCCH
 SAPK SCCH
 SAPK SCCH
 SAPK SCCH

SCCM SYS ID07 H
 SCCM SYS ID06 H
 SCCM SYS ID05 H
 SCCM SYS ID04 H
 SCCM SYS ID03 H
 SCCM SYS ID02 H
 SCCM SYS ID01 H
 SCCM SYS ID00 H

SOURCE	DESTINATION
SCCM SEL1 H	----
SCCM SEL0 H	----
SCCM DATA EN H	----
BUS INTD 07 L	PDRA
BUS INTD 06 L	PDRA
BUS INTD 05 L	PDRA
BUS INTD 04 L	PDRA
BUS INTD 03 L	PDRA
BUS INTD 02 L	PDRA
BUS INTD 01 L	PDRA
BUS INTD 00 L	PDRA
SCCN SYS SIZE 17 H	SAPN
SCCN SYS SIZE 16 H	SAPN
SCCN SYS SIZE 15 H	SAPN
SCCN SYS SIZE 14 H	SAPN
SCCN SYS SIZE 21 H	SAPN (2)
SCCN SYS SIZE 20 H	SAPN (2)
SCCN SYS SIZE 19 H	SAPN (2)
SCCN SYS SIZE 18 H	SAPN (2)
SCCN SWR21 L	SCCN
SCCN SWR20 L	SCCN
SCCN SWR19 L	SCCN
SCCN SWR18 L	SCCN
SCCN SWR17 L	SCCN
SCCN SWR16 L	SCCN
SCCN SYS ID15 H	----
SCCN SYS ID14 H	----
SCCN SYS ID13 H	----
SCCN SYS ID12 H	----
SCCN SYS ID11 H	----
SCCN SYS ID10 H	----
SCCN SYS ID09 H	----
SCCN SYS ID08 H	----
BUS INTD15 L	PDRA
BUS INTD14 L	PDRA
BUS INTD13 L	PDRA
BUS INTD12 L	PDRA
BUS INTD11 L	PDRA
BUS INTD10 L	PDRA
BUS INTD09 L	PDRA
BUS INTD08 L	PDRA
SCCN CNSL OVERFLOW H	SAPN

SOURCE

DESTINATION

SSRA ROM OUT16 H
 SSRA ROM OUT15 H
 SSRA ROM OUT14 H
 SSRA ROM OUT13 H
 SSRA ROM OUT12 H
 SSRA ROM OUT11 H
 SSRA ROM OUT10 H
 SSRA ROM OUT09 H
 SSRA ROM OUT08 Hq
 SSRA ROM OUT07 H
 SSRA ROM OUT06 H
 SSRA ROM OUT05 H
 SSRA DST (1) H
 SSRA ROM OUT06 L
 SSRA KY PH MEMAC (1) H
 SSRA KY PH MEMAC (0) H
 SSRA CLR PSR (1) H
 SSRA ROM 110 H
 SSRA INH PWE L
 SSRA BRK: 30 (0)H
 SSRA BRK: 30 (1) H
 SSRA AUTO DEC (1) H
 SSRA AUTO DEC (0) H
 SSRA ONE CHANGED (1) H
 SSRA PS RESTORE (1) H

SSRB MF/TP SPACE L
 SSRB ROM OUT12 L
 SSRB PS14 BH
 SSRB PMODE=USER H
 SSRB USER MODE H
 SSRB PREV=I H
 SSRB I SPACE A L
 SSRB KERNEL SPACE (1) L
 SSRB MMR0 MODE 0*H
 SSRB SUPER SPACE (1) L
 SSRB USER SPACE (1) L
 SSRB MMR0 MODE 1 H
 SSRB I SPACEB L
 SSRB ENBL IF NOT u/u H

SSRB
 SSRB
 SSRB
 SSRB
 SSRA SSRB (5)
 SSRB
 SCCK
 SSRB
 SSRB
 SAPD SAPK SCCD SSRB
 SSRB
 SSRB (4)
 SSRE
 SSRB (2)
 SAPJ SAPN (2)
 SSRE
 SSRA

 GRAC
 SSRF
 SSRH
 SSRF
 SSRF
 SSRF (2)
 PDRD

SSRB (2)
 SSRB (2)
 SSRB
 SSRB
 SSRB
 SSRB
 SAPK
 SAPE (2) SAPK
 SSCJ SSRE
 SAPE (2) SAPK
 SAPE (2) SAPK
 SCCJ SSRE
 SAPK

SOURCE	DESTINATION
SSRC MMRØ BIT15 H	SSRJ
SSRC MMRØ BIT14 H	SSRJ
SSRC MMRØ BIT13 H	SSRJ
SSRC NO ERROR (1) H	SSRE (2) SSRF (2) SSRH
SSRC INH PSEUDO T3 L	TIGA
SSRC ABORT FLG B L	SSRD
SSRC KT ABORT FLG H	SSRA (2)
SSRC KT ABORT FLG L	SAPD SSRD TMCC TMCE
SSRC ABT FLG (1) H	---
SSRC ABT FLG (Ø) H	SSRD
SSRC CLR ABORT FLG L	PDRH
SSRD MEM MGMT B L	---
SSRD DATA12 H	---
SSRD MMRØ HI B CLK L	SSRD
SSRD CLK TRAP H	SSRD
SSRD MEM MGMT DET (1) H	SSRJ
SSRD ENABLE MGMT (1) H	SSRD SSRJ
SSRD SETMGMT HOLD L	SSRD
SSRD MGTTP DET H	---
SSRD MEM MGMT TRAP L	TMGA
SSRD MGT TP DET DLY L	SSRD
SSRE STROBE OK L	SSRC
SSRE WRITE MMRØ H	SSRC SSRD
SSRE MMRØ BITØ5 H	SSRJ
SSRE MMRØ BITØ6 H	SSRJ
SSRE CLK MMRØ L	SSRE
SSRE INSTR COM (1) H	SSRJ
SSRE DST MODE (1) H	SSRJ
SSRE RELOCATING (1) H	SSRJ
SSRE RELOC L	SAPJ (2) SCCF
SSRE RELOC H	SSRC (2) SSRD SSRE
SSRE MMRØ BITØ1 H	SSRJ
SSRE MMRØ BITØ2 H	SSRJ
SSRE MMRØ BITØ3 H	SSRJ
SSRE MMRØ BITØ4 H	SSRJ
SSRF ONE AUTOED (1) H	SSRF
SSRF ONE AUTOED (Ø) H	SSRF
SSRF MMR1 BIT15 H	SSRJ

SOURCE •

DESTINATION

```
SSRF MMRL BIT14 H
SSRJ MMRL BIT13 H
SSRJ MMRL BIT12 H
SSRF MMRL BIT11 H
SSRF MMRL BIT10 H
SSRF MMRL BIT09 H
SSRF MMRL BIT08 H
SSRF MMRL BIT07 H
SSRF MMRL BIT06 H
SSRF MMRL BIT05 H
SSRF MMRL BIT04 H
SSRF MMRL BIT03 H
SSRF MMRL BIT02 H
SSRF MMRL BIT01 H
SSRF MMRL BIT00 H
```

[illegible]

```
SSRH LOAD IR H
SSRH VA15 CH
SSRH VA14 CH
SSRH VA13 CH
SSRH VAØ2 CL
SSRH VAØ2 CH
SSRH VAØ1 CL
SSRH VAØ1 CH
SSRH MMR2 BIT15 H
SSRH MMR2 BIT14 H
SSRH MMR2 BIT13 H
SSRH MMR2 BIT12 H
SSRH MMR2 BIT11 H
SSRH MMR2 BIT1Ø H
SSRH MMR2 BITØ9 H
SSRH MMR2 BITØ8 H
SSRH MMR2 BITØ7 H
SSRH MMR2 BITØ6 H
SSRH MMR2 BITØ5 H
SSRH MMR2 BITØ4 H
SSRH MMR2 BITØ3 H
SSRH MMR2 BITØ2 H
SSRH MMR2 BITØ1 H
SSRH MMR2 BITØØ H
```

[illegible]

SOURCE

DESTINATION

SSRJ GET OFF L
BUS INTD 00 L
BUS INTD 01 L
BUS INTD 02 L
BUS INTD 03 L
BUS INTD 04 L
BUS INTD 05 L
BUS INTD 06 L
BUS INTD 07 L
BUS INTD 08 L
BUS INTD 09 L
BUS INTD 10 L
BUS INTD 11 L
BUS INTD 12 L
BUS INTD 13 L
BUS INTD 14 L
BUS INTD 15 L

SCCC SCCM SCCN
PDRA
PDRA
PDRA
PDRA
PDRA
PDRA
PDRA
PDRA
PDRA
PDRA
PDRA
PDRA
PDRA
PDRA
PDRA
PDRA

SSRK TS4 H
SSRK TS3 H
SSRK PULSE BC45 H
SSRK PULSE BC9 10 L
SSRK PULSE BC89 H
SSRK PULSE 51 H
SSRK PULSE 23 H
SSRK INITA B L
SSRK INIT A L
SSRK INIT B L
SSRK CNSL I SPACE H
SSRK CNSL USER H
SSRK CNSL SUPER H
SSRK CNSL PHYS DSPLY L
SSRK CNSL KERNEL H
SSRK CNSL PHYS ADRS H
SSRK PRGM PHYS DSPLY L

SSRH
SSRD
SSRB
SSRC
SSRC (2) SSRD
SSRF
SSRA
SSRD (3) SSRH
SAPB SCCD
SSRA SSRB (2) SSRC (3) SSRF
SSRB
SSRB
SSRB
SCCK
SSRB
SSRA
SCCK (2)

MAPA ADRS17 H
MAPA ADRA17 B H
MAPA ADRS16 H
MAPA ADRS16 B H

MAPB MAPC MAPE
MAPF
MAPB MAPC MAPE
MAPF

SOURCE

DESTINATION

MAPA ADRS 15 H
 MAPA ADRS 15 B H
 MAPA ADRS 14 H
 MAPA ADRS 14 B H
 MAPA ADRS 13 H
 MAPA ADRS 13 B H
 MAPA ADRS 12 H
 MAPA ADRS 11 H
 MAPA ADRS 11 L
 MAPA ADRS 10 H
 MAPA ADRS 09 H
 MAPA ADRS 09 L
 MAPA ADRS 08 H
 MAPA ADRS 08 L
 MAPA ADRS 07 H
 MAPA ADRS 06 H
 MAPA ADRS 05 H
 MAPA ADRS 04 H
 MAPA ADRS 04 L
 MAPA ADRS 03 H
 MAPA ADRS 02 H
 MAPA ADRS 01 H
 MAPA ADRS 01 L
 MAPA ADRS 01 B H
 MAPA CA00 H
 MAPA DATA15 H
 MAPA DATA14 H
 MAPA DATA13 H
 MAPA DATA12 H
 MAPA DATA11 H
 MAPA DATA10 H
 MAPA DATA09 H
 MAPA DATA08 H
 MAPA DATA07 H
 MAPA DATA06 H
 MAPA DATA05 H
 MAPA DATA04 H
 MAPA DATA03 H
 MAPA DATA02 H
 MAPA DATA01 H
 MAPA DATA00 H
 MAPA DATA15 L
 MAPA DATA14 L
 MAPA DATA13 L

MAPB MAPC MAPE
 MAPF
 MAPB MAPC MAPE
 MAPF
 MAPB MAPC MAPE
 MAPF
 MAPB MAPE
 MAPB MAPE
 MAPB
 MAPB MAPE
 MAPB
 MAPB MAPE
 MAPB
 MAPB MAPE
 MAPB MAPE
 MAPB MAPE
 MAPB MAPC MAPE
 MAPB MAPC MAPE
 MAPC MAPE
 MAPB
 CCBF CCBH MAPB MAPC MAPE
 CCBF CCBH MAPB MPAC MAPE
 CCBF (2) CCBH MAPB MAPE
 MAPB MAPJ
 MAPJ
 ADME
 CCBJ CCBL CDPE
 CCBJ CCBL CDPE
 CCBJ CCBL CDPE
 CCBJ CCBL CDPE
 CCBJ CCBL CDPE
 CCBJ CCBL CDPE
 CCBJ CCBL CDPE
 CCBK CCBL CDPE
 CCBK CCBL CDPE
 CCBH CCBK CCBL CDPE MAPD
 CCBH CCBK CCBL CDPE MAPD
 CCBH CCBK CCBL CDPE
 CCBH CCBK CCBL CDPE
 CCBH CCBK CCBL CDPE
 CCBH CCBK CCBL CDPE
 CCBH CCBK CCBL CDPE
 MAPC MAPD
 MAPC MAPD
 MAPC MAPD

SOURCE

DESTINATION

MAPA DATA12 L
 MAPA DATA11 H
 MAPA DATA10 H
 MAPA DATA09 H
 MAPA DATA08 H
 MAPA DATA07 L
 MAPA DATA06 L
 MAPA DATA05 L
 MAPA DATA04 L
 MAPA DATA03 L
 MAPA DATA02 L
 MAPA DATA01 L
 MAPA DATA00 L

MAPB MSYNH
 MPAMSYN MAT H
 MAPB REG OP H
 MAPB REG OP L
 MAPB 77X (X1X)XX H
 MAPB CACHE REG L
 MAPB CACHE REG H
 MAPB TIMEOUT (0) H
 MAPB C1 H
 MAPB C0 H
 MAPB PB DATA H
 BUS PBL
 BUS SSYN
 MAPB REG SSYN L
 MAPB WRITE HI WORD L
 MAPB WRITE LO WORD L

MAPC + D RA21 H
 MAPC + D RA20 H
 MAPC + D RA19 H
 MAPC + D RA18 H
 MAPC + D RA17 H
 MAPC + D RA16 H
 MAPC + D RA15 H
 MAPC + D RA14 H

MAPC MAPD
 MAPC MAPD
 MACP MAPD
 MAPC MAPD
 MAPC (2) MAPD
 MAPC MAPD
 MAPC MAPD
 MAPC (2) MAPD
 MAPC (2) MAPD
 MAPC MAPD (3)
 MAPC (2) MAPD (2)
 MAPC (2) MAPD (2)
 MAPC MAPD

MAPF MAPH MAPJ

 MAPC MAPJ
 MAPC MAPJ

 MAPF MAPH
 CCBC CCBD CCBH CCBJ

 ADMJMAPJ
 ADMJ
 CCBJ (2)

 MAPC MAPD
 MAPC MPAD

MAPE MAPJ
 MAPE MAPJ
 MAPE MAPJ
 MAPE MAPJ
 MAPE MAPJ
 MAPE MAPJ
 MAPE MAPJ
 MAPE MAPJ

SOURCE .

DESTINATION

MAPC + D RA13 H
MAPC + D RA12 H
MAPC + D RA11 H
MAPC + D RA10 H
MAPC + D RA09 H
MAPC + D RA08 H
MAPC + D RA07 H
MAPC + D RA06 H
MAPC + D RA05 H
MAPC + D RA04 H
MAPC + D RA03 H
MAPC + D RA02 H
MAPC + D RA01 H
MAPC INDA 4 L
MAPC INDA 3 L
MAPC INDA 2 L
MAPC INDA 1 L
MSPC INDA 4 H
MAPC INDA 3 H
MAPC INDA 2 H
MAPC INDA 1 H
MAPC EN LO REG L
MAPC EN HI REG L

MAPE MAPJ
MAPE MAPJ
MAPE MAPJ
MAPE MAPJ
MAPE MAPJ
MAPE MAPJ
MAPE MAPJ
MAPE MAPJ
MAPE MAPJ
MAPE MAPJ
MAPE MAPJ
MAPE MAPJ
MAPE MAPJ

MAPC MAPD
MAPC MAPD
MAPC MAPD
APC MAPD
MAPC
MAPD

```
MAPD ENAB MAP A L
MAPD ENAB MAP B L
MAPD ENAB MAP C L
MAPD ENAB MAP AH
MAPD ENAB MAP BH
MAPD ENAB MAP CH
MAPC + D RA21 H
MAPC + D RA20 H
MAPC + D RA19 H
MAPC + D RA18 H
MAPC + D RA17 H
MAPC + D RA16 H
MAPC + D RA15 H
MAPC + D RA14 H
MAPC + D RA13 H
MAPC + D RA12 H
MAPC + D RA11 H
MAPC + D RA10 H
MAPC + D RA09 H
```

[illegible]

SOURCE

DESTINATION

MAPC + D RA08 H
MAPC + D RA07 H
MAPC + D RA06 H
MAPC + D RA05 H
MAPC + D RA04 H
MAPC + D RA03 H
MAPC + D RA02 H
MAPC + D RA01 H

MAPE MAPJ
MAPE MAPJ
MAPE MAPJ
MAPE MAPJ
MAPE MAPJ
MAPE MAPJ
MAPE MAPJ
MAPE MAPJ

MAPE CA01 H
MAPE CA02 H
MAPE CA03 H
MAPE CA04 H
MAPE CA05 H
MAPE CA06 H
MAPE CA07 H
MAPE CA08 H
MAPE COUT2 L
MAPE CA09 H
MAPE CA10 H
MAPE CA11 H
MAPE CA12 H
MAPE CA13 H
MAPE CA14 H
MAPE CA15 H
MAPE CA16 H
MAPE COUT4 L
MAPE CA17 H
MAPE CA18 H
MAPE CA19 H
MAPE CA20 H
MAPE CA21 H

ADME
ADME
ADME
ADME
ADME
ADME
ADME
ADME
MAPE
ADME
ADME
ADME
ADME
ADME
ADME
ADME
ADME
MAPE
ADMF
ADMF
ADMF
ADMF
ADMF

MAPF UP LIMOK H
MAPF LO LIMOK H
MAPF CACHE BUS ADRS L
MAPF UB REQUEST H
MAPF PAR ADRS OK 4
MAPF UB REQUEST (1) L

MAPF

MAPJ

MAPB
CCBB

SOURCE:

DESTINATION

```

MAPH CA DATA15 (1) H
MAPH CA DATA14 (1) H
MAPH CA DATA13 (1) H
MAPH CA DATA12 (1) H
MAPH CA DATA 11 (1) H
MAPH CA DATA 10 (1) H
MAPH CA DATA 09 (1) H
MAPH CA DATA 08 (1) H
MAPH CA DATA 07 (1) H
MAPH CA DATA 06 (1) H
MAPH CA DATA 05 (1) H
MAPH CA DATA 04 (1) H
MAPH CA DATA 03 (1) H
MAPH CA DATA 02 (1) H
MAPH CA DATA 01 (1) H
MAPH CA DATA 00 (1) H
MAPH PAR ERR (1) H

```

[illegible]

MAPJ EN BUS H

BUS	D00	L
BUS	D01	L
BUS	D02	L
BUS	D03	L
BUS	D04	L
BUS	D05	L
BUS	D06	L
BUS	D07	L
BUS	D08	L
BUS	D09	L
BUS	D10	L
BUS	D11	L
BUS	D12	L
BUS	D13	L
BUS	D14	L
BUS	D15	L

MAPB

1. The first step is to identify the problem or goal. This involves understanding the current situation and what needs to be achieved.

2. Next, it's important to gather information. This can be done through research, interviews, or data analysis.

3. Once you have the information, you need to develop a plan. This plan should outline the steps you will take to achieve your goal.

4. After the plan is developed, it's time to implement it. This involves putting the plan into action and monitoring progress.

5. Finally, you need to evaluate the results. This involves comparing the actual outcomes with the expected outcomes and making adjustments as needed.

SOURCE

DESTINATION

MAPH CA DATA15 (1) H
MAPH CA DATA14 (1) H
MAPH CA DATA13 (1) H
MAPH CA DATA12 (1) H
MAPH CA DATA 11 (1) H
MAPH CA DATA 10 (1) H
MAPH CA DATA 09 (1) H
MAPH CA DATA 08 (1) H
MAPH CA DATA 07 (1) H
MAPH CA DATA 06 (1) H
MAPH CA DATA 05 (1) H
MAPH CA DATA 04 (1) H
MAPH CA DATA 03 (1) H
MAPH CA DATA 02 (1) H
MAPH CA DATA 01 (1) H
MAPH CA DATA 00 (1) H
MAPH PAR ERR (1) H

MAPJ
MAPJ
MAPJ
MAPJ
MAPJ
MAPJ
MAPJ
MAPJ
MAPJ
MAPJ
MAPJ
MAPJ
MAPJ
MAPJ
MAPJ
MAPJ
MAPB

MAPJ EN BUS H
BUS D00 L
BUS D01 L
BUS D02 L
BUS D03 L
BUS D04 L
BUS D05 L
BUS D06 L
BUS D07 L
BUS D08 L
BUS D09 L
BUS D10 L
BUS D11 L
BUS D12 L
BUS D13 L
BUS D14 L
BUS D15 L

MAPB

