| Prom Name | Rev | Part No. | Location | Page | Comments | |
|---------------|-----|----------|----------|------|----------------------------------|---------|
| SwitchProm | R | F93427 | i14 | 14 | New Rev for 16K Control Store CP | 256 x 4 |
| KernPC16Prom | В | F93427 | h14 | 15 | Standard | 256 x 4 |
| CSIntProm | D | F93453 | e20 | 22 | Standard | 1K x 4 |
| StackVirtProm | I | F93427 | h24 | 15 | Standard | 256 x 4 |
| ScheduleProm | D | F93453 | h18 | 14 | Standard | 1K x 4 |
| ErrorProm | Е | F93453 | g14 | 15 | Standard | 1K x 4 |
| IBProm-PC.0 | G | F93453 | i17 | 05 | Standard | 1K x 4 |
| IBProm-PC.4 | G | F93453 | h17 | 05 | Standard | 1K x 4 |
| DesMpProm.0 | В | F93427 | a16 | 33 | Added to control DES logic | 256 x 4 |
| DesMpProm.4 | В | F93427 | b16 | 33 | Added to control DES logic | 256 x 4 |
| DesSpProm | Α | F93427 | b15 | 33 | Added to control DES logic | 256 x 4 |

Prom files are stored on [Indigo]<Dandelion>CPE>Proms>*

Bringover /a [Indigo]<Dandelion>CPE>DfFiles>Proms.df to fetch all files, sources, tools, etc.

Labels:

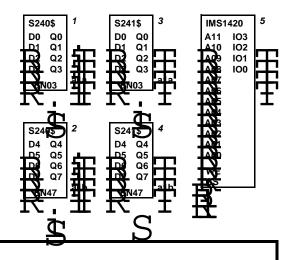
KernPC16

| CSIn | t | Stack | kVirt | Sche | dule | Error | • | IB-P0 | C.0 | IB-PC | 2.4 | DesM | p.0 | DesMp.4 DesSp | | р | |
|------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|------|-------|---------------|-------|------|---------|
| e20 | Rev-D | h24 | Rev-I | h18 | Rev-D | g14 | Rev-E | i17 | Rev-G | h17 | Rev-G | a16 | Rev-B | b16 | Rev-B | b15 | Rev-A |
| CSIn | t | Stack | kVirt | Sche | dule | Error | • | IB-P | 0.0 | IB-PC | 2.4 | DesM | p.0 | DesM | p.4 | DesS | <u></u> |
| e20 | Rev-D | h24 | Rev-I | h18 | Rev-D | g14 | Rev-E | i17 | Rev-G | h17 | Rev-G | a16 | Rev-B | b16 | Rev-B | b15 | Rev-A |

| 114 Rev | R N14 Rev-B | ezu Rev-D | n24 Rev-I | N18 Rev-D | g14 Rev-E | 117 Rev-G | ni/ Rev-G | ale Rev-B | D16 Rev-B | D15 Rev-A |
|---------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Switch | KernPC16 | CSInt | StackVirt | Schedule | Error | IB-PC.0 | IB-PC.4 | DesMp.0 | DesMp.4 | DesSp |
| i14 Rev | h14 Rev-B | e20 Rev-D | h24 Rev-I | h18 Rev-D | g14 Rev-E | i17 Rev-G | h17 Rev-G | a16 Rev-B | b16 Rev-B | b15 Rev-A |
| Switch | KernPC16 | CSInt | StackVirt | Schedule | Error | IB-PC.0 | IB-PC.4 | DesMp.0 | DesMp.4 | DesSp |
| i14 Rev | h14 Rev-B | e20 Rev-D | h24 Rev-I | h18 Rev-D | g14 Rev-E | i17 Rev-G | h17 Rev-G | a16 Rev-B | b16 Rev-B | b15 Rev-A |
| Switch | KernPC16 | CSInt | StackVirt | Schedule | Error | IB-PC.0 | IB-PC.4 | DesMp.0 | DesMp.4 | DesSp |
| i14 Rev | R h14 Rev-B | e20 Rev-D | h24 Rev-I | h18 Rev-D | a14 Rev-E | i17 Rev-G | h17 Rev-G | a16 Rev-B | b16 Rev-B | b15 Rev-A |

Font 4 Macros

Switch



6

AmZ8068

AFLG SP7 SP6 SP5

MFLG **SFLG**

PAF

Important Notes:

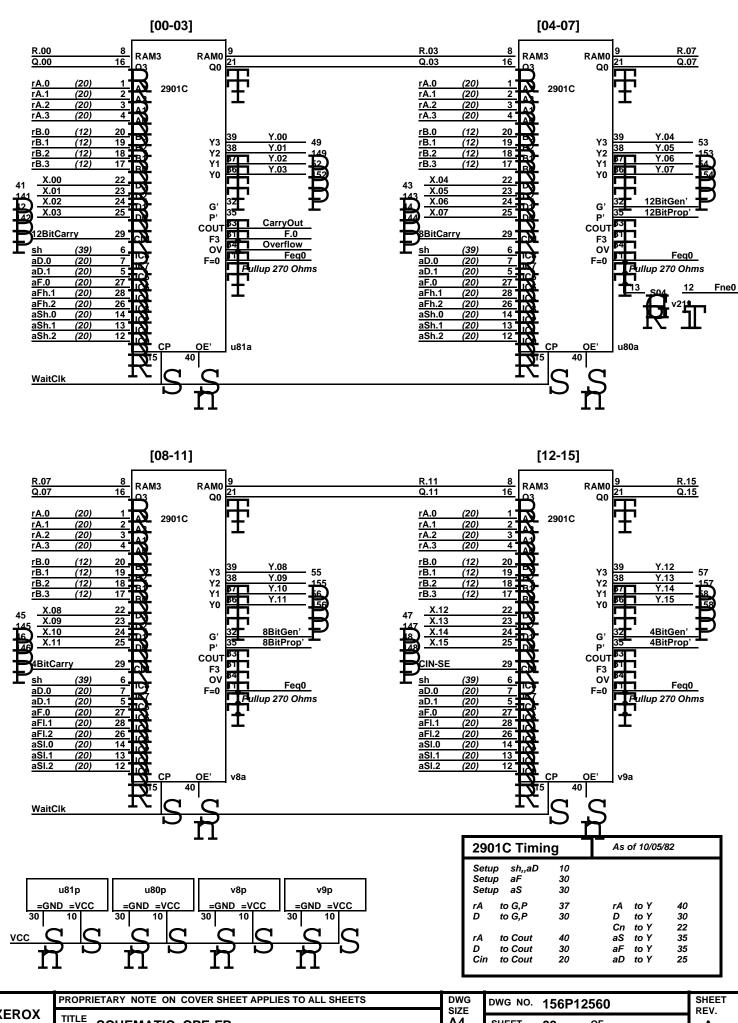
Only macros 0-9 are valid component names and will not be expanded by Analyze.

Some of these drawings contain instances of the macros above.

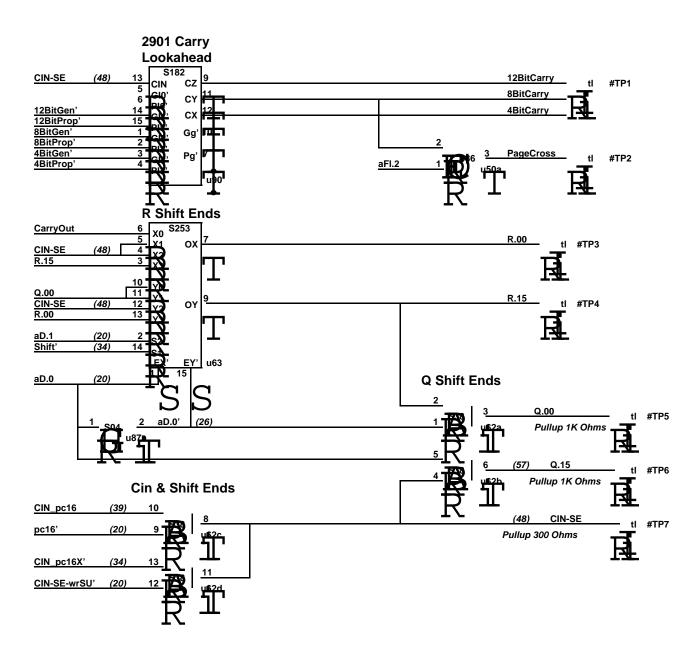
Those that do have a warning on them, see below left.

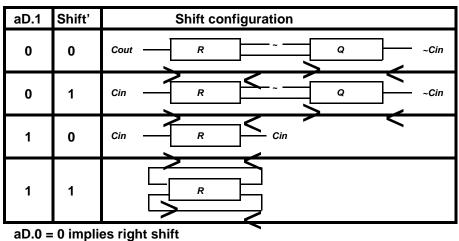
There is a corresponding CPEDict.analyze that should be prepended to the dictionary chain.

| | PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS | | | DWG NO. | 156P12560 | | | SHEET REV. |
|-------|---|-----------|------------|---------|-----------|----|--|---------------|
| XEROX | TITLE SCHEMATIC, CPE-FP | Reference | SIZE A4 | SHEET | 02 | OF | | A |

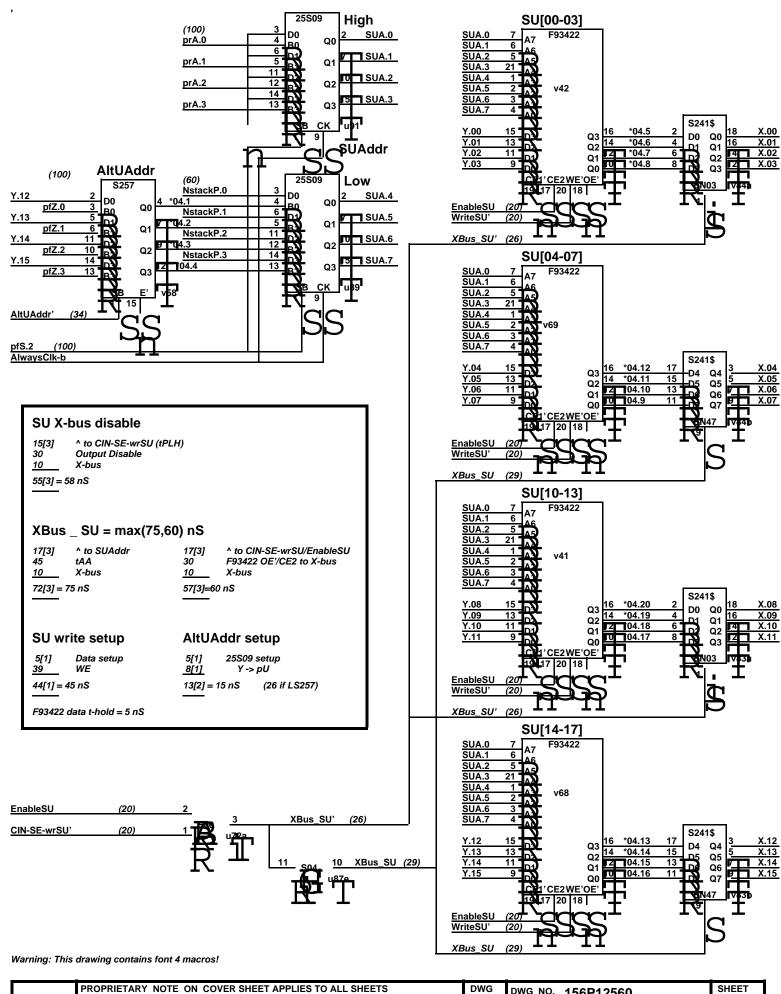


XEROX A4 SCHEMATIC, CPE-FP SHEET 03 Α



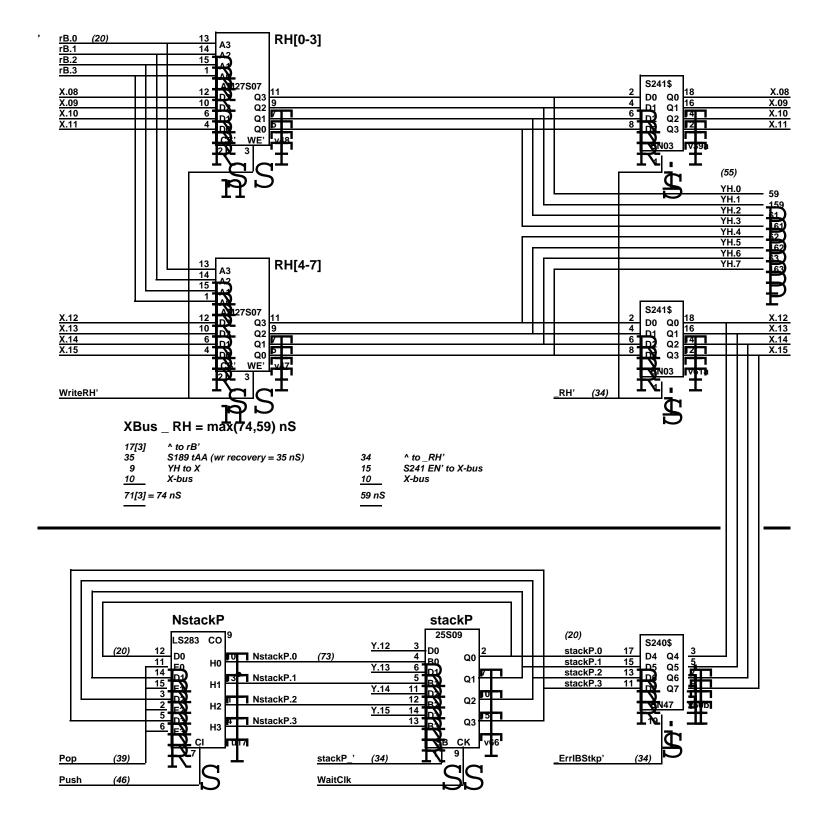


| V== 0V | PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS | DWG SIZE | DWG NO. | 156P1 | 12560 | SHEET REV. |
|--------|---|-------------|---------|-------|-------|---------------|
| XEROX | TITLE SCHEMATIC, CPE-FP | A4 | SHEET | 04 | OF | A |



XEROX

| PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS | DWG SIZE A4 | SIZE A4 | SHEET 05 OF A | SHEET REV. A



Push Timing

46 ^ to Push 24[3] Push to NstackP 5[1] 25S09 setup

75[4] = 79 nS

XBus _ stackP = max(59, 38) nS

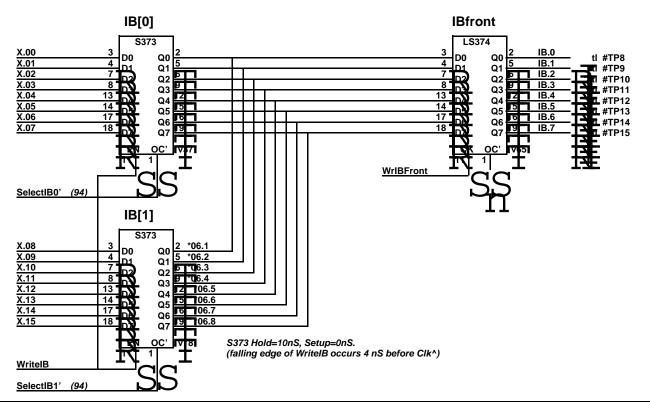
 17[3]
 ^ to stackP
 34
 ^ to _ErrIntstackP'

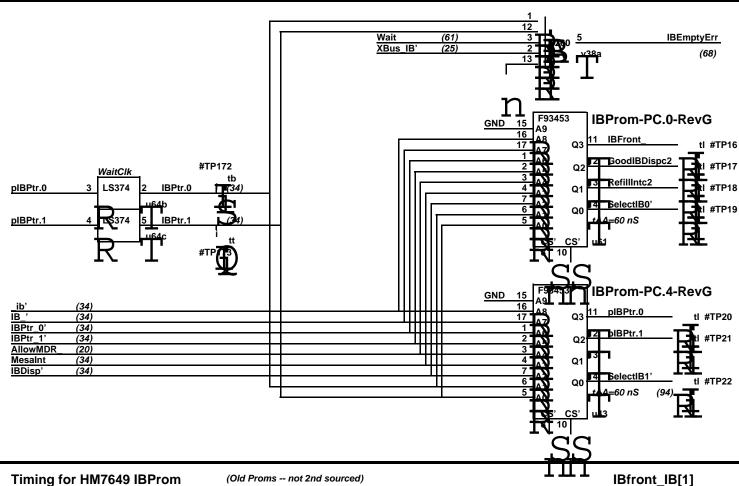
 7
 \$240 data to X-bus
 15
 \$240 EN' to X-bus

 10
 X-bus
 10
 X-bus

34[3] = 38 nS 59 nS

| | PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS | DWG SIZE | DWG NO. 156P12560 | | | SHEET REV. |
|-------|---|-------------|-------------------|----|----|---------------|
| XEROX | TITLE SCHEMATIC, CPE-FP | A4 | SHEET | 06 | OF | Α |





Timing for HM7649 IBProm $IBFront _ Xbus = (x+37, x+36) nS$

Xbus to IB

43 WritelB rises 43 nS before end of cycle - 6

Difference between S373 "EN to Q" and "Data to Q" = 18[2] - 13[1] = 6 nS. Data can arrive 6 nS

x+37 nS after WritelB goes high.

Xbus to IB 13[1] S373 Data to NB LS374 setup 20[2]

x+36 nS 132[4]=136 nS

94

18[2]

20[2]

WriteIB rises

LS374 setup

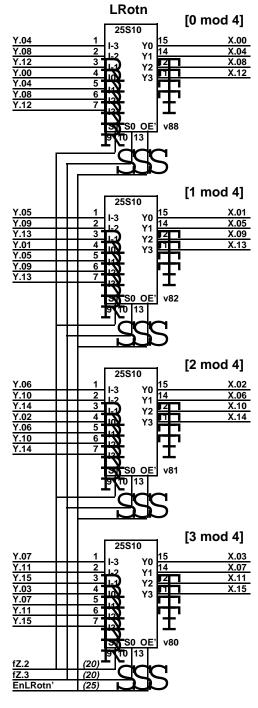
S373 EN to NB

34 ^ to IBPtr_1' tAA

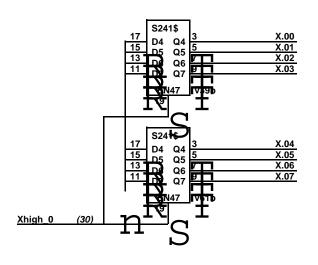
18[2] SelectIB1' to NB 20[2] LS374 setup

132[4]=136 nS

| | PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS | DWG SIZE | DWG NO. | 156P1 | 2560 | SHEET REV. |
|-------|---|-------------|---------|-------|------|---------------|
| XEROX | TITLE SCHEMATIC, CPE-FP | A4 | SHEET | 07 | OF | A |



| fZ.2 | fZ.3 | Rotate |
|------|------|---------|
| 0 | 0 | Left 0 |
| 0 | 1 | Left 12 |
| 1 | 0 | Left 8 |
| 1 | 1 | Left 4 |



Zero disable X-bus

^ to Xhigh_0 S241 EN to X-bus X-bus

10 55 nS

15

Xbus[0-7] _ 0

^ to Xhigh_0 15 S241 OĔ 10 X-bus 55 nS

Xbus _ Y LRotn = max(y+22, 56, 50) nS

^ to Y bus у 12

25S10 data in to out

10 X-bus

22 nS

25 ^ to EnLRotn' 21 25S10 OE

X-bus 10

56 nS

^ to fZ.2 20

25S10 Select to X-bus 20

<u>10</u> X-bus

50 nS

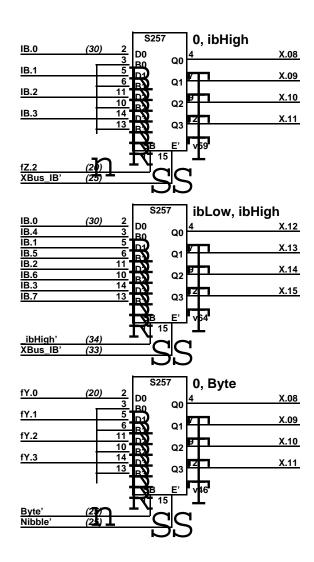
LRotn disable X-bus

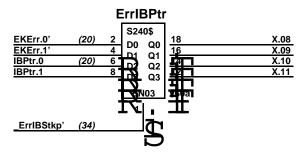
^ to EnLRotn' 25 15 25S10 OE' to X-bus

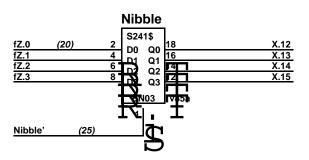
<u>10</u> X-bus

50 nS

| V = D O V | PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS | DWG SIZE | DWG NO. | 156P | 12560 | SHEET REV. |
|-------------------------|---|-------------|---------|------|-------|---------------|
| XEROX | TITLE SCHEMATIC, CPE-FP | A4 | SHEET | 80 | OF | A |







IB disable X-bus

^ to XBus_IB' 14 S257 E' to X-bus 10 X-bus

49 nS

Byte disable X-bus

^ to Nibble' 25 S257 E' to X-bus 14 10 X-bus

49 nS

Nibble disable X-bus

25 ^ to Nibble' 15 S241 EN' to X-bus

X-bus 10

50 nS

Xbus_IB=max(56,56,59) nS

^ to IB 34[4]

S257 data to Xbus

<u>10</u> X-bus

52[4] = 56 nS

^ to Xbus_IB'

21 S257 E' to Xbus X-bus

10

56 nS

34 ^ to_ibHigh' 15

S257 SB to Xbus X-bus

<u>10</u>

59 nS

Xbus $_$ Nibble = max(39, 50) nS

20 ^ to fZ

S241 data to X-bus

10 X-bus

39 nS

9

25 ^ to Nibble'

15 S241 EN' to X-bus

10 X-bus

50 nS

Xbus _ Byte = max(38, 56,50) nS

^ to fY 20

S257 data to X-bus 8

X-bus <u>10</u>

38 nS

25 ^ to Nibble'

21 S257 E' to X-bus

10 X-bus

56 nS

25 ^ to Byte'

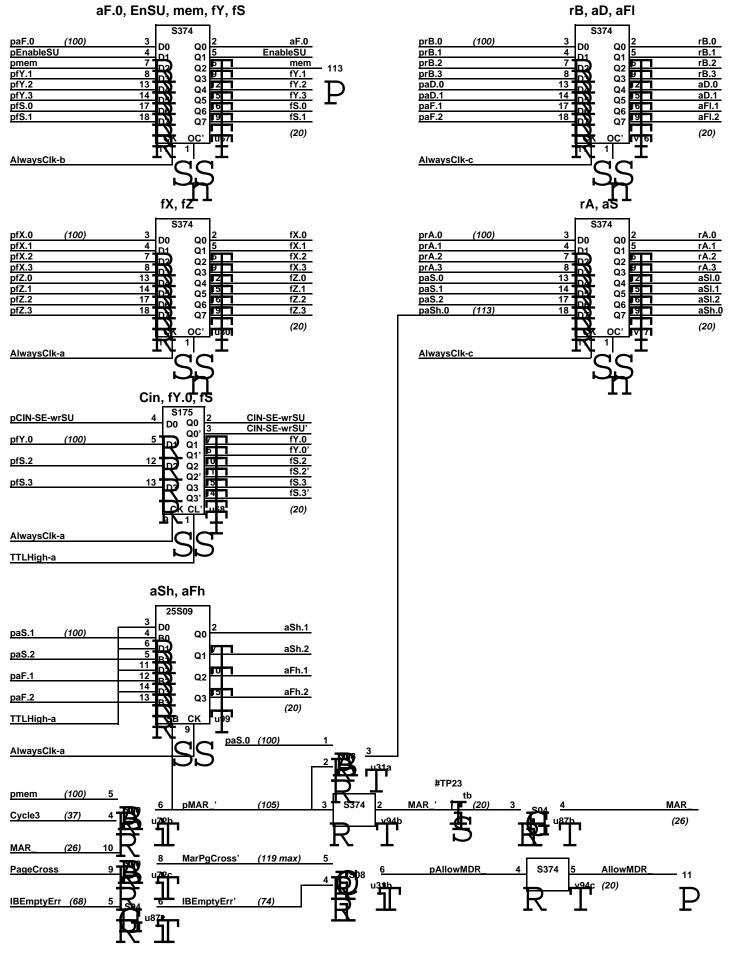
15 S257 SB to Xbus

<u>10</u> X-bus

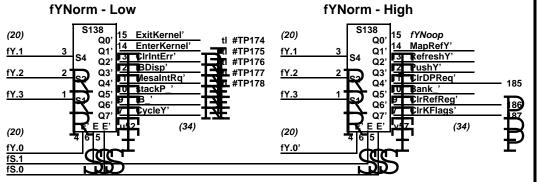
50 nS

See stackP timings for ErrIBPtr

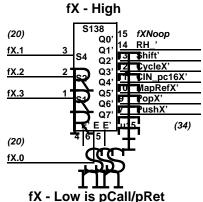
| | PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS | DWG | DWG NO. | 156P12560 | SHEET |
|-------|---|------------|---------|--------------|-------|
| XEROX | TITLE SCHEMATIC, CPE-FP | SIZE A4 | SHEET | 09 OF | REV. |



| | PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS | DWG SIZE | DWG NO. | 156P | 12560 | SHEET REV. |
|-------|---|-------------|---------|------|-------|---------------|
| XEROX | TITLE SCHEMATIC, CPE-FP | A4 | SHEET | 10 | OF | Α |



Bank_' replaces ClrlOPReq', which was connected to 184 on backplane



ADDED for CPE fZNorm - Low fZNorm - High S138 (20)RefreshZ (20)fZNoop QO იი 14 IBPtr_1' DES tl #TP179 fZ.1 Q1 fZ.1 Q1 BPtr_0' Port_ Q2 #TP180 Q2' Z CIN_pc16Z _Port' fZ.2 Q3' fZ.2 03 DES -Rot0 Ω4 Q4' U LRot12 TO PopZ #TP181 fZ.3 Q5' fZ.3 Q5' 9 PushZ 7 AltUA Ð Rot8 Q6' Q6' Rot4 **A**ltUAddr Q7' Q7' (34)E E' (34)(20)(20)fZH.0 fS.2 fZL.0

There are 2 spare fZ decodes available for future expansion

Notes on 16K CP additions:

Note that Bank_' is fY=D, not fZ=4, as stated in the Dandelion Hardware Manual!

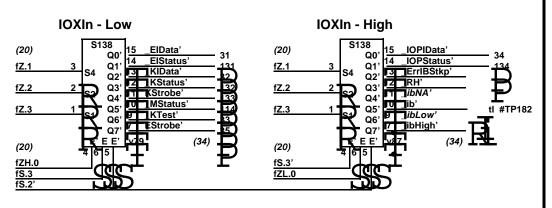
Bank_' replaces ClrlOPReq', which is now obsolete. ClrlOPReq' was also connected to backplane pin 184.

The meaning of Des_YBus' depends on which cycle it is activated in:

Des_YBus' in C2 means Write Des Address Des_YBus' in C1 or C3 means Write Des Data

XBus_Des' can be activated in any cycle See page sCPE31 for details of DES logic

The fZNorm-High decoder has been added in the 16K CP to derive the DES decodes.

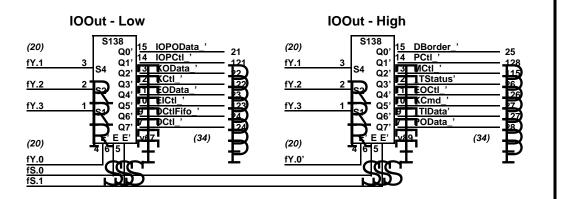


S138 Timing:

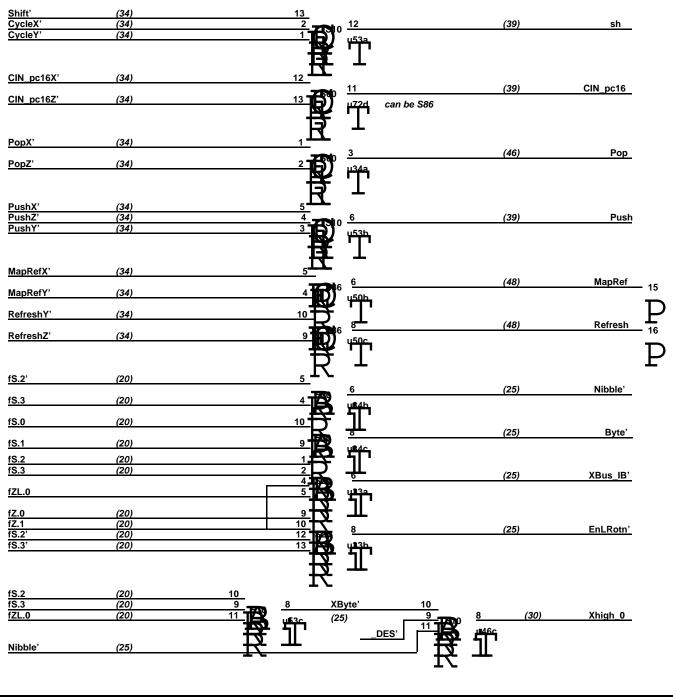
Propagation delays

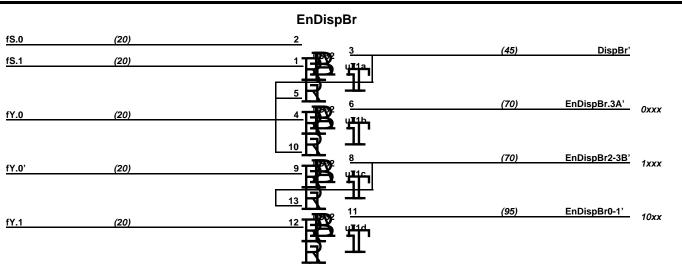
from Selects to Q' 14nS from Enables to Q' 13nS

These timings are very conservative!

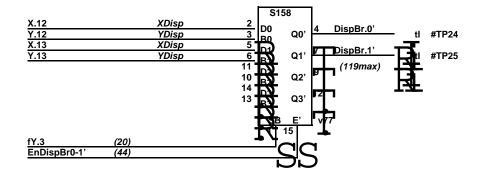


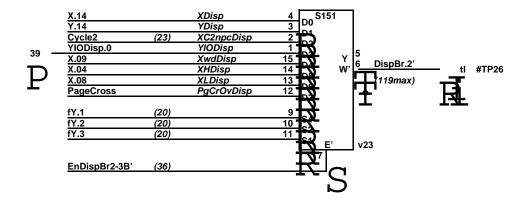
| | PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS | | DWG NO | · 156F | P12560 | SHEET |
|-------|---|------------|--------|--------|--------|-------|
| XEROX | TITLE SCHEMATIC, CPE-FP | SIZE A4 | SHEET | 11 | OF | REV. |

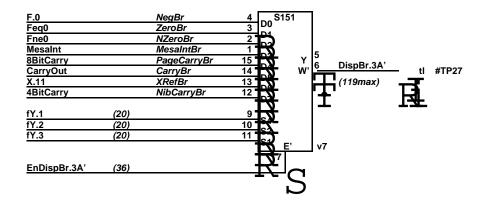


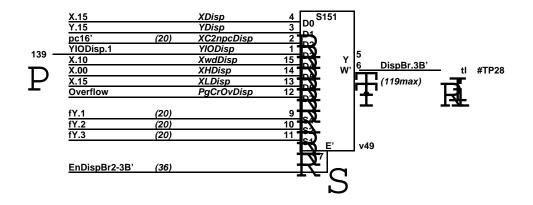


| VEDOV | PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS | DWG SIZE | DWG NO. | DWG NO. 156P12560 | | |
|-------|---|-------------|---------|-------------------|----|------|
| XEROX | TITLE SCHEMATIC, CPE-FP | A4 | SHEET | 12 | OF | REV. |









DispBr[0-1] = max(c+32,69,133)

20 ^ to fY

24[3] S151 select to DispBr

18 DispBr' setup

64[3]=69

95 ^ to EnDispBr0-1' 18[2] S151 E' to DispBr 18 DispBr' setup

131[2] = 133 nS

c condition source 12[2] S151 data to DispBr

18 DispBr' setup

c+30[2]=c+32

DispBr Setup

5 S00 in to pTC 6[1] S64 in to pNIA 5[1] 25S09/S374 setup

18 nS

DispBr[2-3]=max(c+26,55,103)

0 ^ to fY

15[2] S151 select to DispBr

18 DispBr' setup

51[4]=55 nS

70 ^ to EnDispBr.3A'

13[2] S151 E' to DispBr 18 DispBr' setup

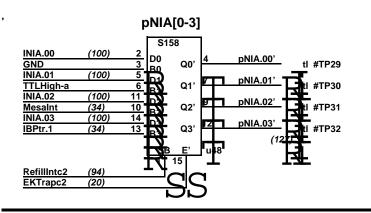
101[2] = 103 nS

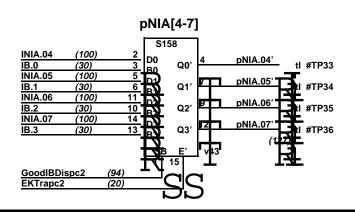
c condition source 7[1] S151 data to DispBr

DispBr' setup

c+23[3]=c+26 nS

| | | _ | | | | |
|-------|---|------------|-------------|----------------------------|--|------|
| | PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS | DWG | DWG NO. 156 | ³ NO. 156P12560 | | |
| XEROX | TITLE SCHEMATIC, CPE-FP | SIZE A4 | SHEET 13 | OF | | REV. |





pNIA[0-7]=max(127, 120, 46) nS

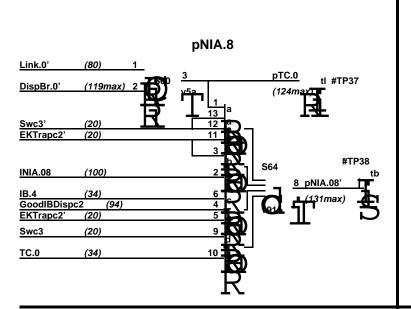
94 ^ to RefillIntc2 24[3] LS158 SB to pNIA' 5[1] 25S09/S374 setup

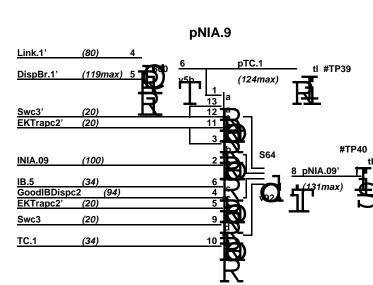
123[4]=127 nS

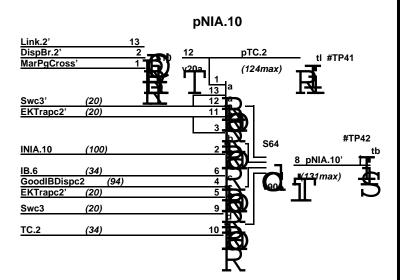
12[2] LS158 data to pNIA' 5[1] 25S09/S374 setup 43[3]=46nS

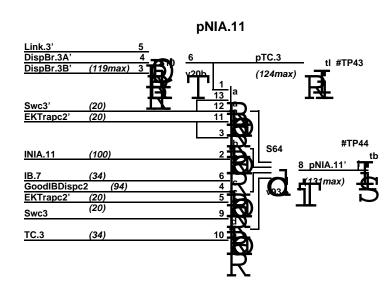
117[3]=120 nS

(See page 11 for pNIA[8-11] timing)

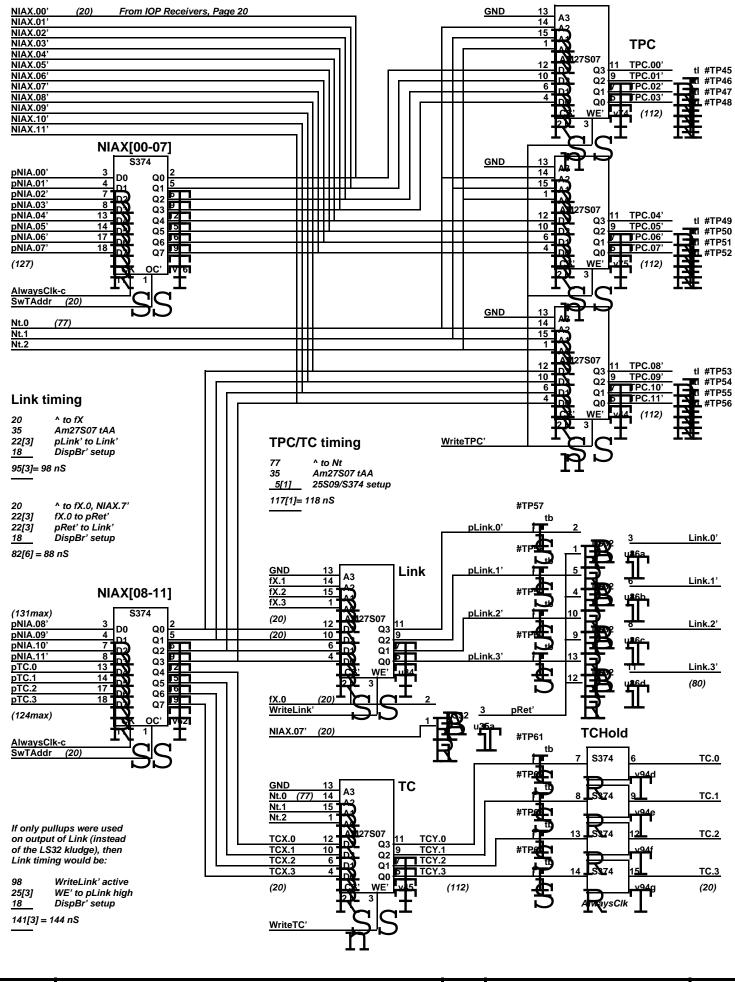




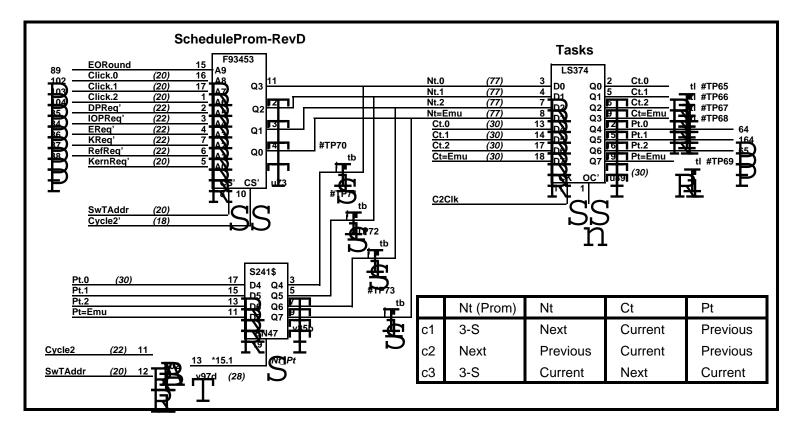


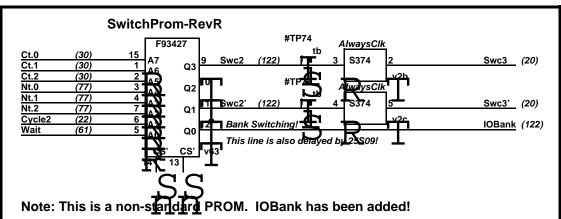


| VEDOV | PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS | DWG SIZE | יין טווט ווט. | | SP12560 | | SHEET REV. |
|-------|---|-------------|---------------|----|---------|--|---------------|
| XEROX | TITLE SCHEMATIC, CPE-FP | A4 | SHEET | 14 | OF | | A |



| | PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS | DWG NO. 156P12560 | | SHEET |
|-------|---|-------------------|-------------|-------|
| XEROX | TITLE SCHEMATIC, CPE-FP | SIZE A4 | SHEET 15 OF | REV. |





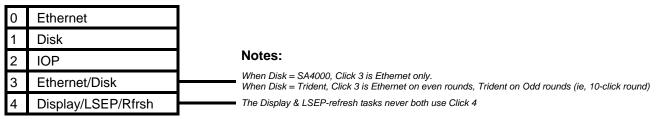
Task Numbers

| 0 | Emulator |
|---|-------------------|
| 1 | Display/LSEP |
| 2 | Ethernet |
| 3 | Refresh |
| 4 | Disk |
| 5 | IOP |
| 6 | Control Store R/W |
| 7 | Kernel |

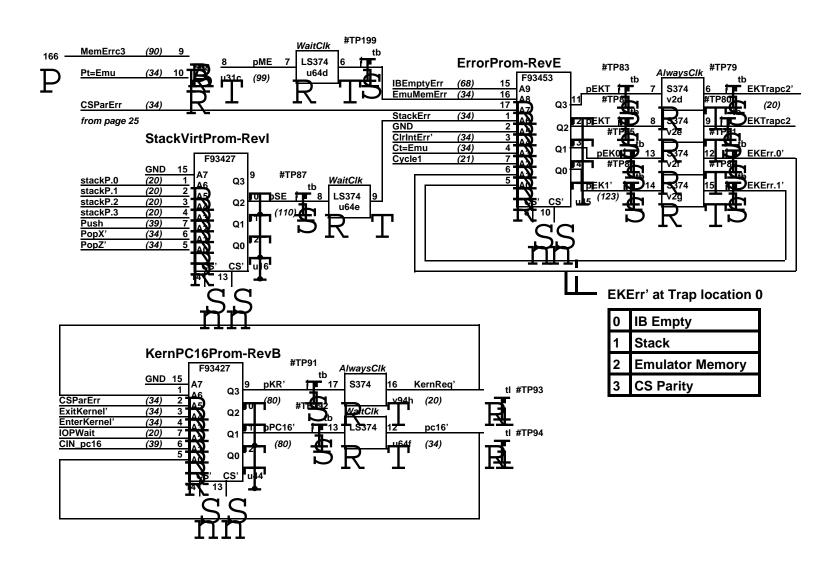
Swc2 timing=max(133,101,101)

^ to Kreq' ^ to SwTAddr ^ to Nt Pt 22 28 F93453 addr to Nt 55 25 F93453 CS' to Nt 15[2] S241 EN to Nt F93427 addr to Swc2 25S09 SB setup F93427 addr to Swc2 F93427 addr to Swc2 45 45 45 10[1] 10[1] 25S09 SB setup 10[1] 25S09 SB setup

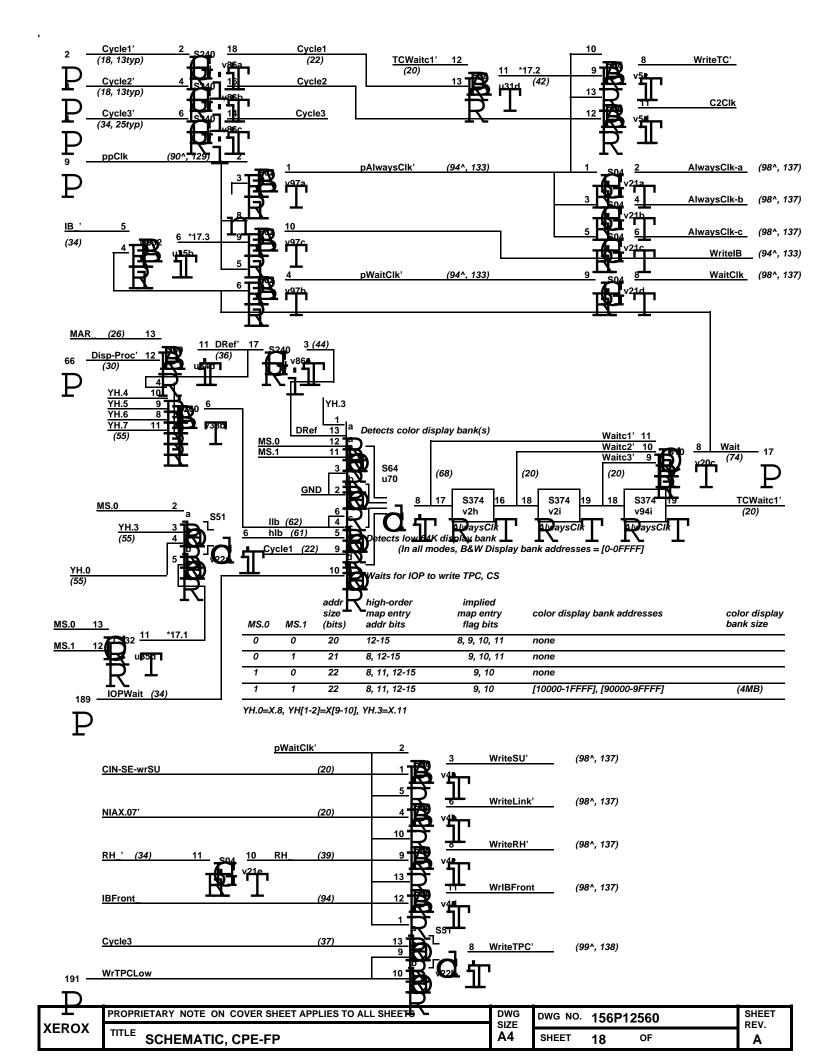
Click Assignment

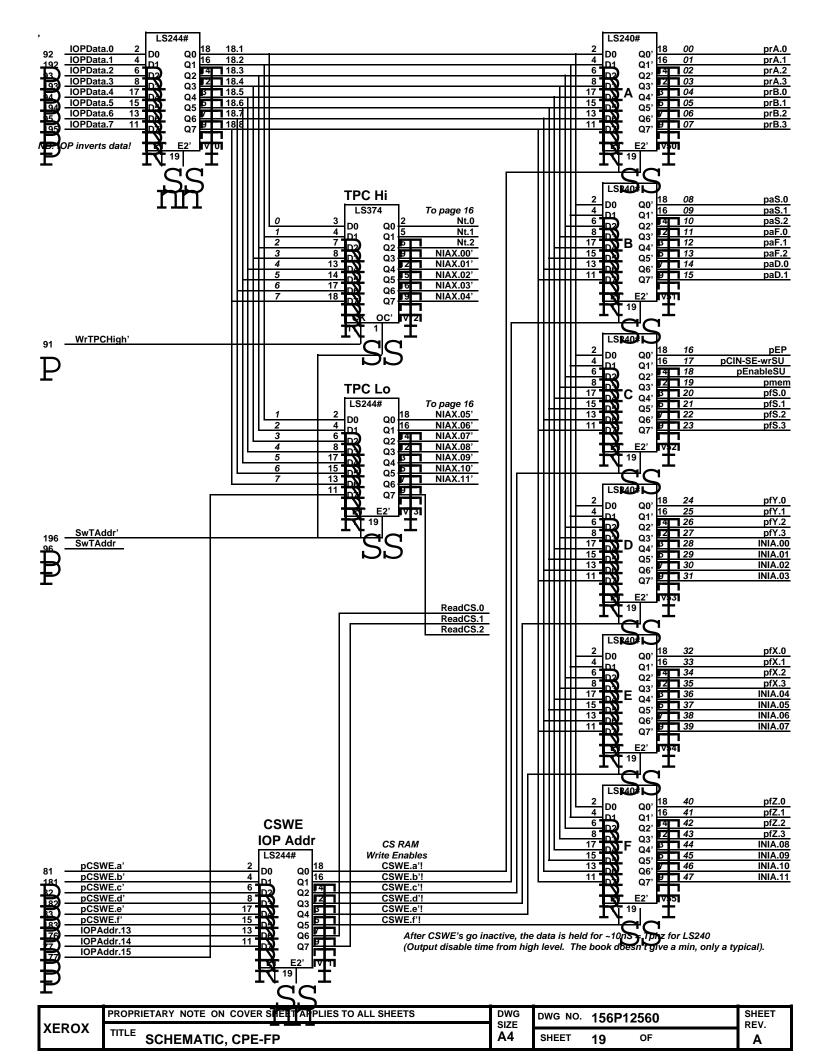


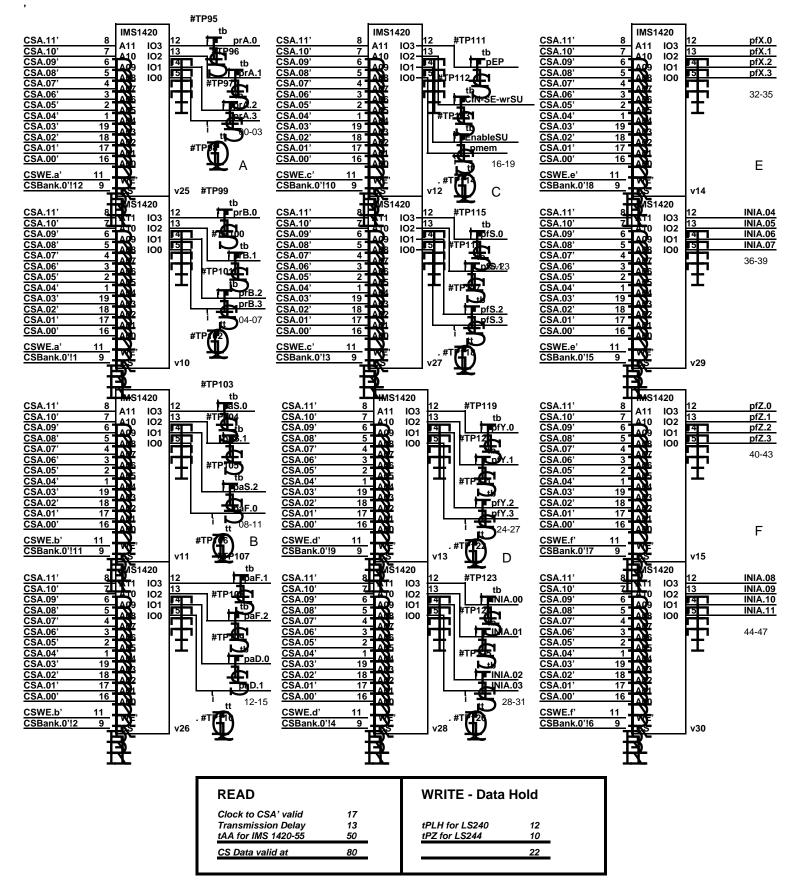
| XEROX | PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS | DWG SIZE | DWG NO. 156P12560 | | | SHEET REV. |
|-------|---|-------------|-------------------|----|----|---------------|
| | TITLE SCHEMATIC, CPE-FP | A4 | SHEET | 16 | OF | Α |



| | PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS | DWG | TOWO NO. TAMPIZAMI | | SHEET | 1 | |
|-------|---|------------|--------------------|----|-------|------|--|
| XEROX | TITLE SCHEMATIC, CPE-FP | SIZE A4 | SHEET | 17 | OF | REV. | |

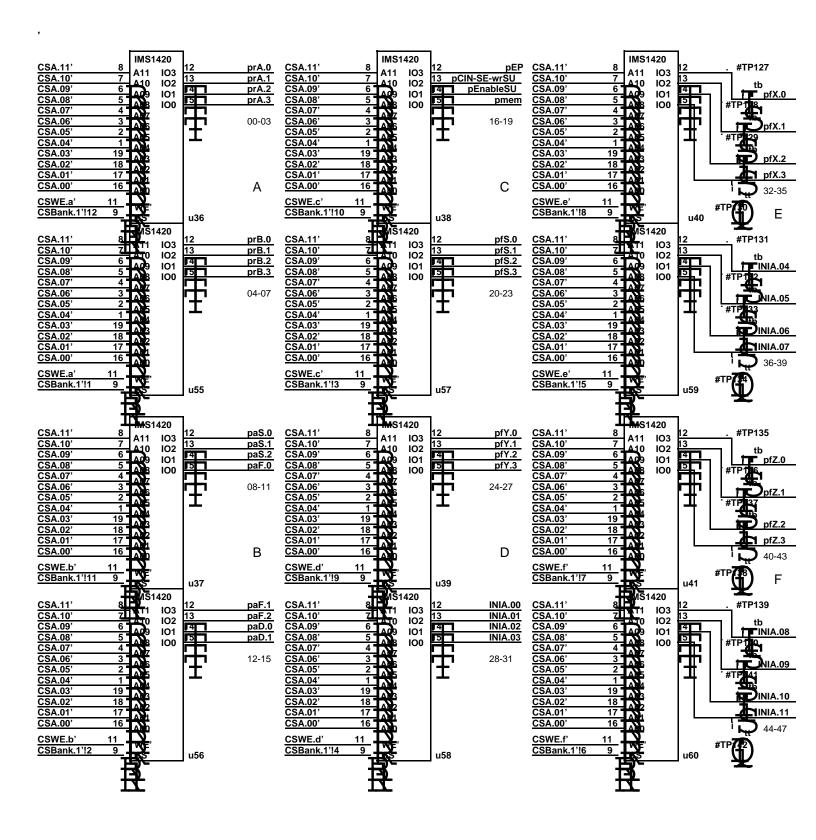




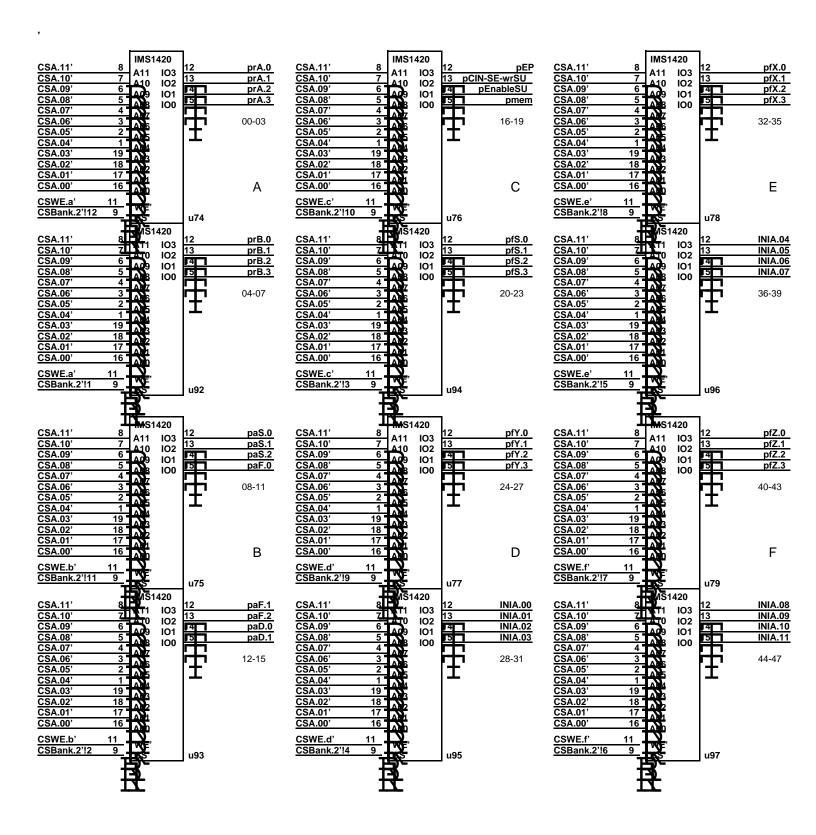


This suggests that IMS 1420-70 would also work without any trouble.

| XEROX | PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS | DWG SIZE | DWG NO. | | 156P12560 | | |
|-------|---|-------------|---------|----|-----------|------|--|
| XERUX | TITLE SCHEMATIC, CPE-FP | A4 | SHEET | 20 | OF | REV. | |



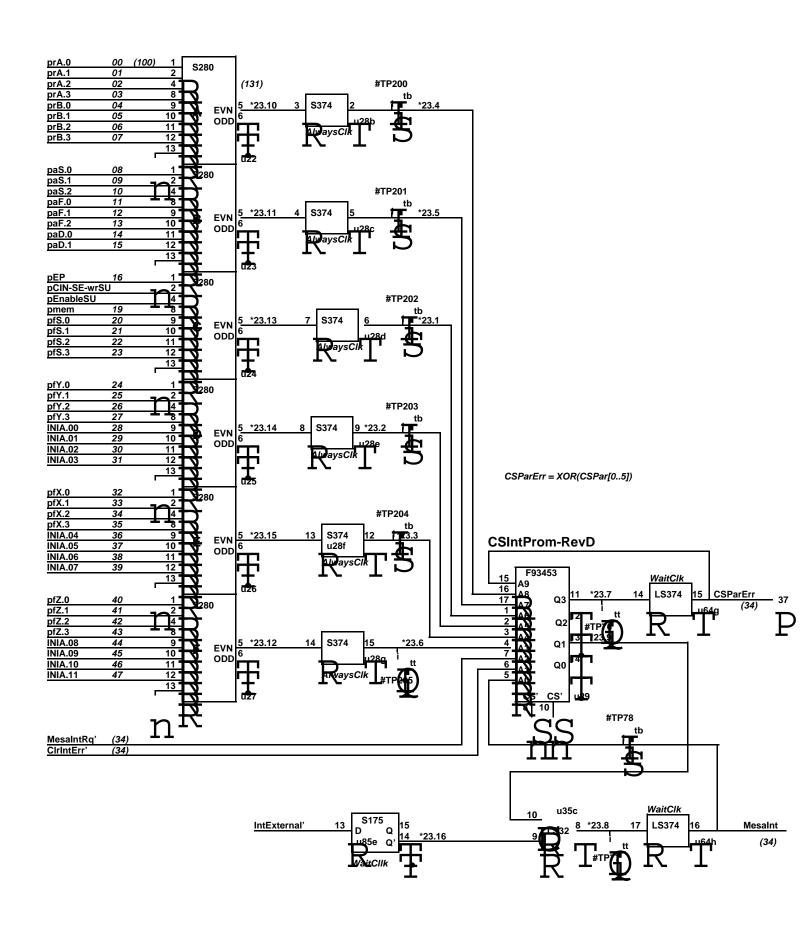
| | PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS | DWG SIZE | DWG NO. | | D. 156P12560 | | |
|-------|---|-------------|---------|----|--------------|------|--|
| XEROX | TITLE SCHEMATIC, CPE-FP | A4 | SHEET | 21 | OF | REV. | |



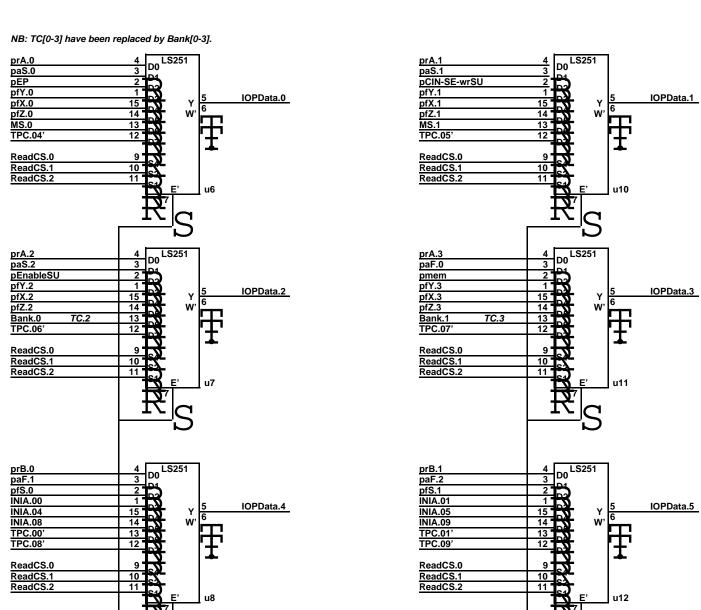
| | PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS | DWG SIZE | DWG DWG NO. | | 156P12560 | | |
|-------|---|-------------|-------------|----|-----------|------|--|
| XEROX | TITLE SCHEMATIC, CPE-FP | A4 | SHEET | 22 | OF | REV. | |

The control Store has been removed to make room for the floating point module.

| VEDOV | PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS | | DWG NO. | | o. 156P12560 | | |
|-------|---|----|---------|----|--------------|--|------|
| XEROX | TITLE SCHEMATIC, CPE-FP | A4 | SHEET | 23 | OF | | REV. |

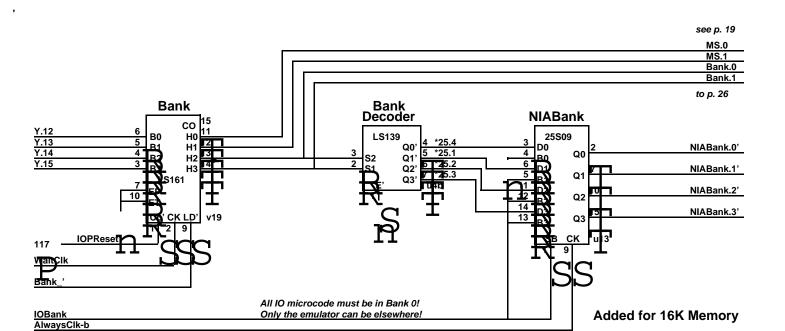


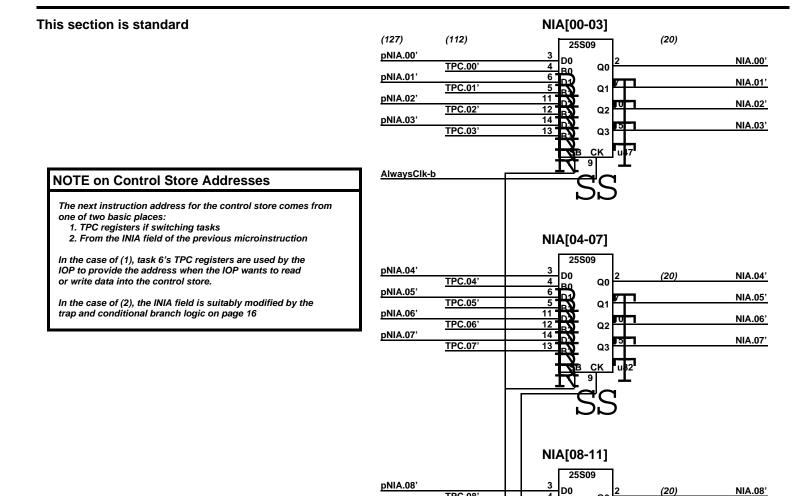
| VEDOV | PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS | | DWG NO. | | NO. 156P12560 | | |
|-------|---|----|---------|----|---------------|--|------|
| XEROX | TITLE SCHEMATIC, CPE-FP | A4 | SHEET | 24 | OF | | REV. |



| ReadCS.0 9 ReadCS.1 10 ReadCS.2 11 | S E U6 | | ReadCS.0 ReadCS.1 ReadCS.2 | 9 30 10 11 25 E' u10 | |
|---|--|---------|---|---|-----------|
| prA.2 4 paS.2 3 pEnableSU 2 pfY.2 1 pfX.2 15 pfZ.2 14 Bank.0 7C.2 13 TPC.06' 12 ReadCS.0 9 ReadCS.1 10 ReadCS.2 11 | DO LS251 DO LS251 W 5 101 W 7 6 T 1 17 | PData.2 | prA.3 paF.0 pmem pfY.3 pfX.3 pfZ.3 Bank.1 | 4 D0 LS251 3 2 D3 Y 6 6 T1 T2 T2 T1 | IOPData.3 |
| prB.0 | Do LS251 S | PData.4 | prB.1 paF.2 pfS.1 INIA.01 INIA.05 INIA.09 TPC.01' TPC.09' ReadCS.0 ReadCS.1 ReadCS.2 | 4 Do LS251 3 Do LS251 15 Do W 5 6 13 12 W 10 Do LS251 10 Do LS251 11 Do LS251 12 Do LS251 13 Do LS251 14 Do LS251 15 Do LS251 16 Do LS251 17 Do LS251 18 Do LS251 | IOPData.5 |
| TPC.10' 12 " ReadCS.0 9 " ReadCS.1 10 " ReadCS.2 11 " ReadCS.2 11 " | Do LS251 W 5 101 | PData.6 | prB.3 paD.1 pfS.3 INIA.03 INIA.07 INIA.11 TPC.03' TPC.11' ReadCS.0 ReadCS.1 ReadCS.2 | 4 D0 LS251 2 D0 LS251 15 D7 6 14 D0 W 6 11 D0 LS251 Y 6 14 D0 LS251 Y 6 U54 | IOPData.7 |
| P | | | | | |

| | | _ | = | |
|-------|---|------------|-------------------|-------|
| | PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS | DWG | DWG NO. 156P12560 | SHEET |
| XEROX | TITLE SCHEMATIC, CPE-FP | SIZE A4 | SHEET 25 OF | REV. |





| | PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS | DWG SIZE | DWG NO. | 156P | 12560 | SHEET REV. |
|-------|---|-------------|---------|------|-------|---------------|
| XEROX | TITLE SCHEMATIC, CPE-FP | A4 | SHEET | 26 | OF | A |

pNIA.09'

pNIA.10'

<u>pNIA.11</u>'

Swc2

AlwaysClk-c

(122)

TPC.08'

TPC.09'

TPC.10'

TPC.11'

Q0

Q1

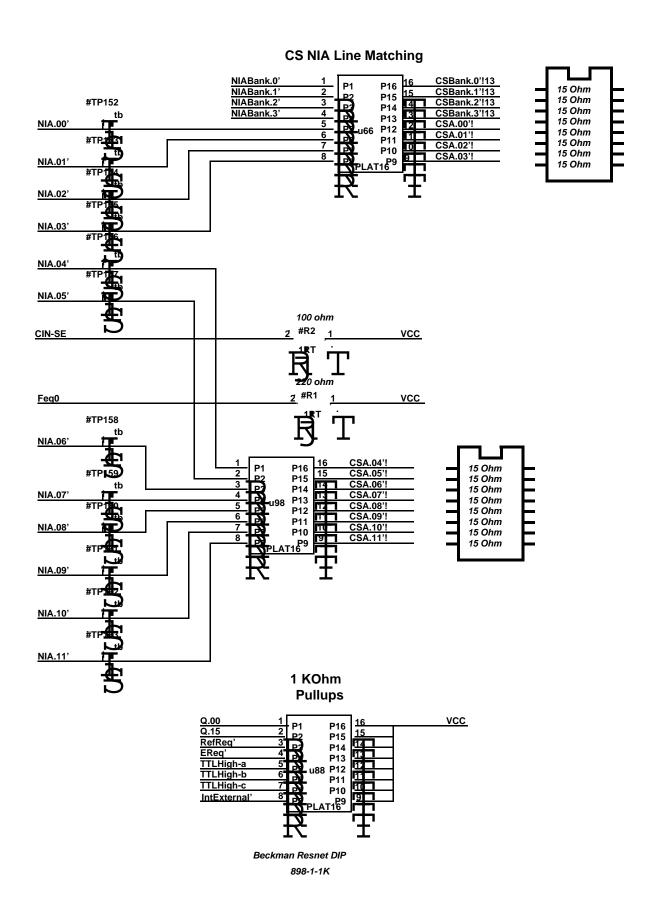
Q2

Q3

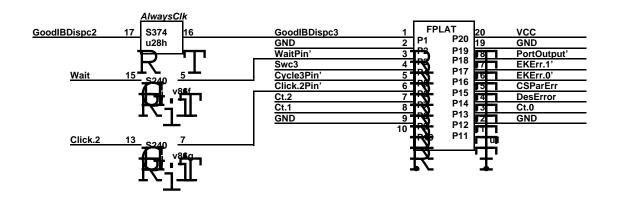
NIA.09'

NIA.10'

NIA.11'

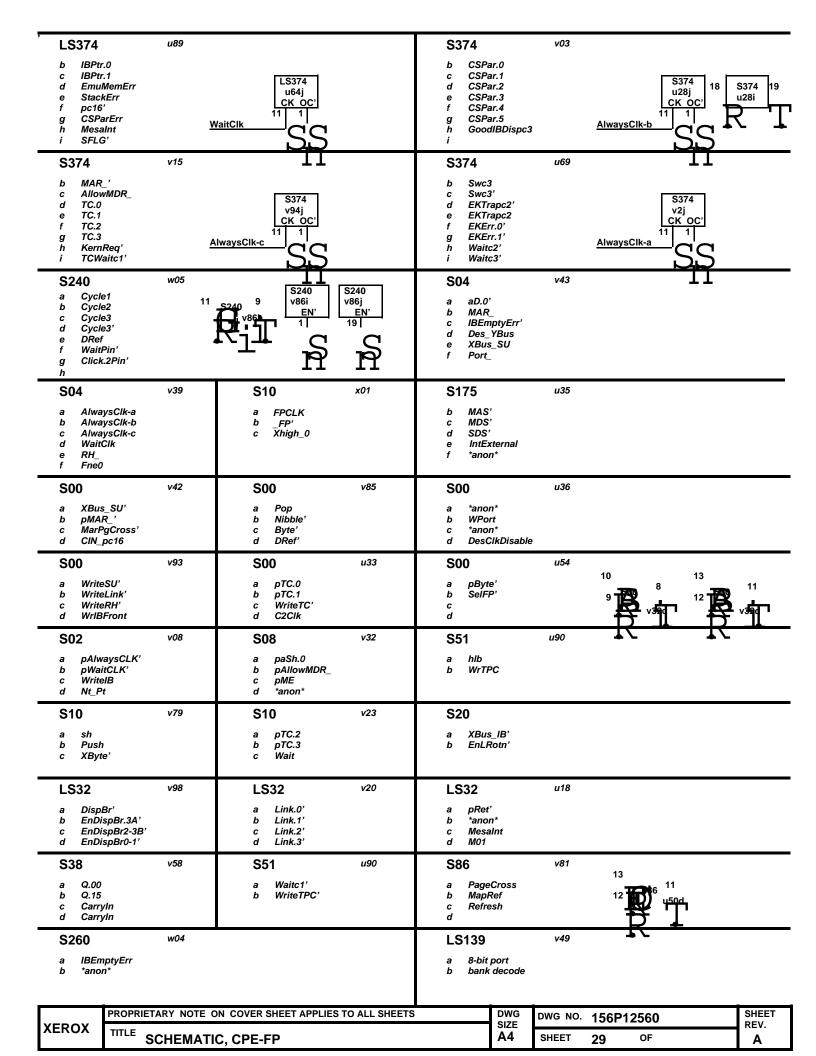


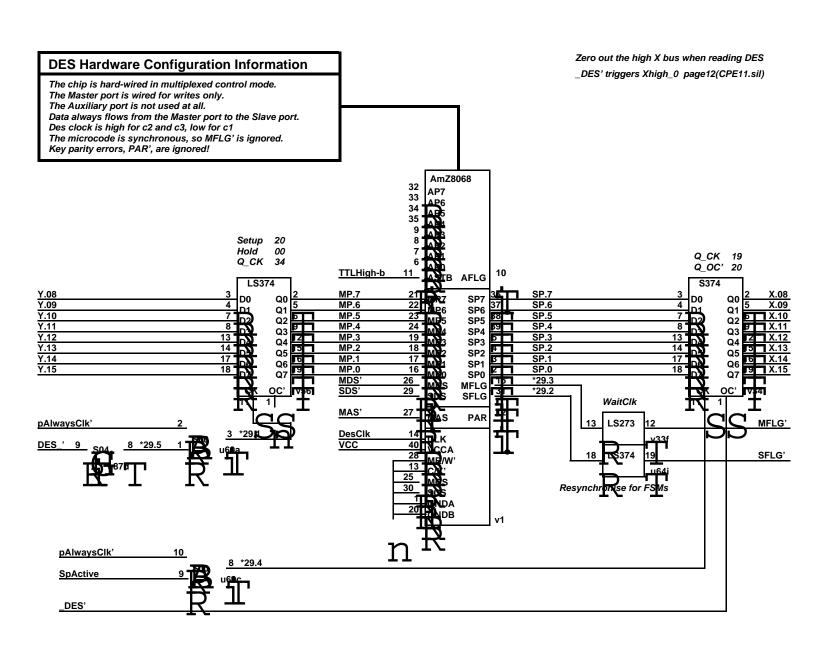
| | PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS | DWG SIZE | DWG NO. | 156P1 | 2560 | SHEET REV. |
|-------|---|-------------|---------|-------|------|---------------|
| XEROX | TITLE SCHEMATIC, CPE-FP | A4 | SHEET | 27 | OF | A |



| GND | 1 | FPLAT | 20 | CSA.08' |
|-------------|-----|--------|----|---------|
| AlwaysClk-b | 2 | P1 P20 | 19 | CSA.07' |
| MS.1 | 3 - | P2 P19 | 8 | CSA.06' |
| MS.0 | 4 " | P18 | | CSA.05' |
| Bank.1 | 5 - | P17 | б | CSA.04' |
| Bank.0 | 6 - | P16 | 15 | CSA.03' |
| CSA.11' | 7 - | P15 | 4 | CSA.02' |
| CSA.10' | 8 - | P14 | 13 | CSA.01' |
| CSA.09' | 9 - | P13 | 12 | CSA.00' |
| GND | 10 | P12 | | GND |
| | • | P11 | 1 | |
| | - | 7 | т | |
| | | \sim | I | |

| | PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS | DWG | DWG NO. 156P12560 | SHEET |
|-------|---|------------|-------------------|-------|
| XEROX | TITLE SCHEMATIC, CPE-FP | SIZE A4 | SHEET 28 OF | REV. |



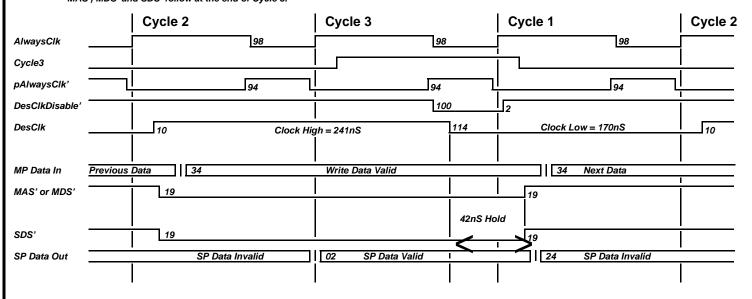


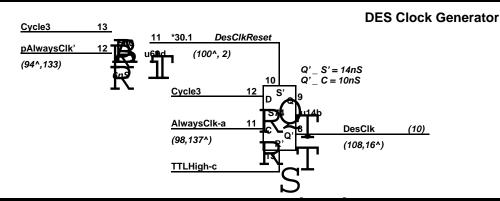
| | PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS | DWG SIZE | DWG NO. | 156P1 | 12560 | SHEET REV. |
|-------|---|-------------|---------|-------|-------|---------------|
| XEROX | TITLE SCHEMATIC, CPE-FP | A4 | SHEET | 30 | OF | Α |

| Clock & Reset Clock width HIGH Clock width LOW Clock Cycle Clock High to MAS'&MDS' High | Reset Hold | AMD # 1 2 3 6 | min. 115 115 250 0 | max. 50 | actual used 241 170 411 19 | Notes |
|---|---|--|---|--------------------------|---|---|
| MP and SP Strobe Times MAS' falling to MAS' rising (address) MDS' falling to MDS' rising (data) MDS' rising to MDS' falling SDS' falling to SDS' rising (data read) SDS' rising to SDS' falling Clk falling to MDS' rising Clk falling to SDS' rising | MAS width Low MDS width Low MDS Recovery SDS width Low SDS Recovery MDS Hold SDS Hold | 32 44a 46 44a 46 45 45 | 80 125 125 125 125 125 20 20 | 1000 1000 70 70 | 274 274 137 274 137 42 | Can't exceed 1000, so have to watch out for WaitClk Can't exceed 1000, so have to watch out for WaitClk This is the difficult bit! See circuitry below. This is the difficult bit! See circuitry below. |
| MAS Write into Master Port Data Valid to MAS' rising Data Hold after MAS' rising | Address Setup Address Hold | 36 37 | 55 60 | | 268 243 | |
| MDS Write into Master Port Data Valid to MDS' rising Data Hold after MDS' rising | Data Setup Data Hold | 47b 48 | 125 80 | | 268 243 | |
| SDS Read from Slave Port SDS falling to Data Valid SDS rising to Data Invalid SDS falling to SFLG rising | SP Access SP Data Hold SP Flag | 49b 50 51 | 5 | 120 125 | | for last byte read |

DES Clock Generator Timing

Note: Because of the requirement to hold MDS' and SDS' for 20 to 70 nanoseconds after DesClk falling, we bring DesClk down early in Cycle 3. MAS', MDS' and SDS' follow at the end of Cycle 3.

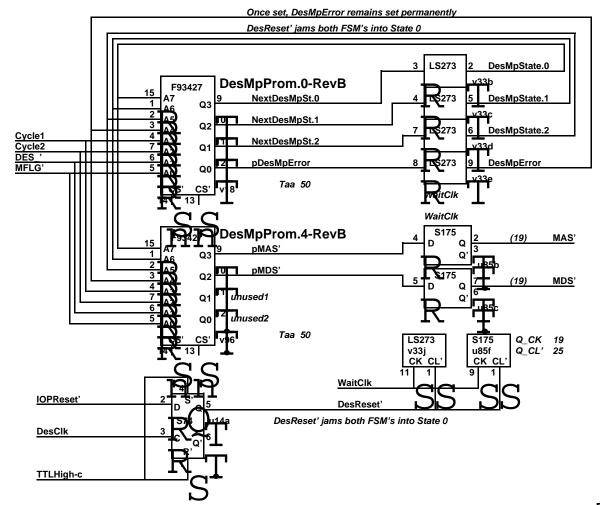




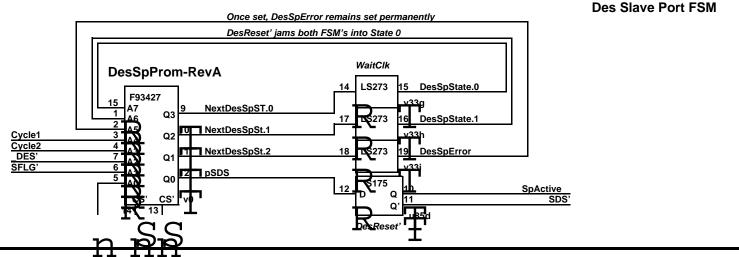
XEROX PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS

TITLE SCHEMATIC, CPE-FP

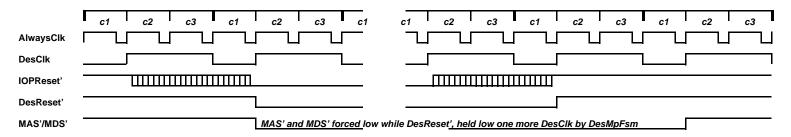
DWG NO. 156P12560
SIZE A4
SHEET 31 OF
A



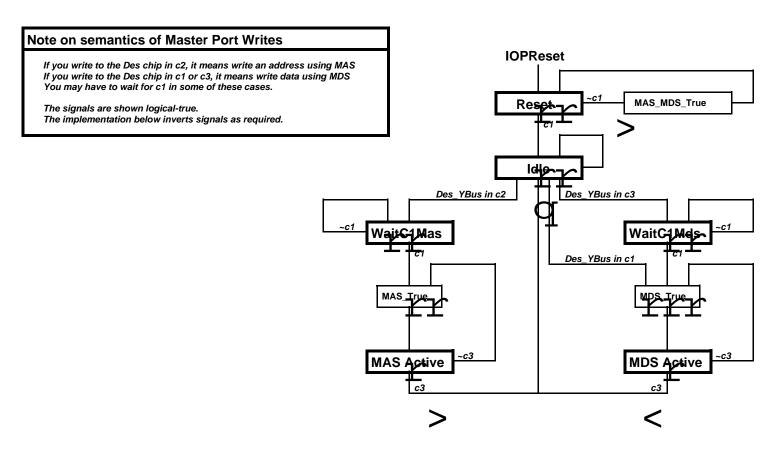
Des Master Port FSM



Reset Des Chip and FSM's with IOPReset'

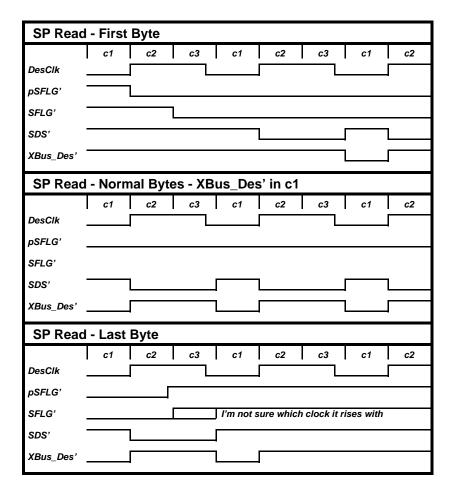


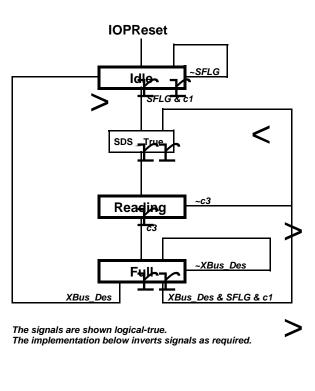
| XEROX | PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS | DWG SIZE | DWG NO. | 156P1 | 12560 | SHEET REV. |
|-------|---|-------------|---------|-------|-------|---------------|
| XERUX | TITLE SCHEMATIC, CPE-FP | A4 | SHEET | 32 | OF | Α |



Master Port Finite-State Machine - Error handling of DesMpError signal is not shown

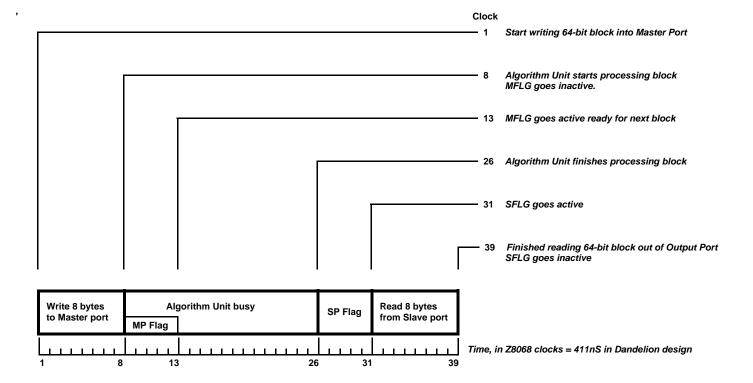
Slave Port Finite-State Machine - Error handling of DesSpError signal is not shown





| | PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEET | S | DWG SIZE | DWG NO. | 156P | 12560 | SHEET REV. |
|-------|--|-----------|-------------|---------|------|-------|---------------|
| XEROX | TITLE SCHEMATIC, CPE-FP | Reference | A4 | SHEET | 33 | OF | A A |

Write address into Des Master Port in C2 c1 c2 c3 AlwaysClk DesClk Des_YBus NB: Have to miss a click before next write MAS' Write data into Des Master Port in C1 c3 DesClk Des_YBus' in c1 NB: If you write in c1, can catch consecutive clicks/Des Clocks MDS' Write data into Des Master Port in C3 c1 c2 c3 c1 c2 c3 c1 c2 AlwaysClk DesClk Des_YBus' NB: Have to miss a click before next write MDS' Read Data from Des Slave Port in C1 c3 AlwaysClk DesClk SFLG' Byte1 Byte2 SDS' Byte 0 Des SP Data latched by SDS'^ XBus_Des' NB: If you read in c1, can read consecutive clicks Read Data from Des Slave Port in C2 l _{c3} ▮ c2 с1 c2 AlwaysClk DesClk SFLG' SDS' Byte 0 Byte1 Des SP Data latched by SDS'^ XBus_Des' Byte 0 NB: Have to miss a click before next Byte1 Read Data from Des Slave Port in C3 c1 c2 c3 c1 c2 c3 c1 c2 | c3 c1 AlwaysClk DesClk SFLG' SDS' Byte 0 Byte1 Des SP Data latched by SDS'^ Byte 0 NB: Have to miss a click before next read XBus Des' Byte1 PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS SHEET DWG NO. 156P12560 SIZE REV. **XEROX A4** SCHEMATIC, CPE-FP SHEET 34 Α Reference



WARNING! This data is not guaranteed to be correct!

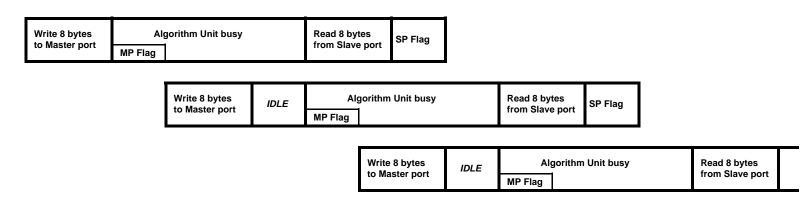
NOTES:

The longest operation in encrypting a block is the time it takes to get the data through the algorithm unit, 18 clocks. Therefore, this is the bottleneck in the pipelining scheme, and the software must aim to keep the Algorithm unit fully busy.

Apart from the first and last blocks, the time taken to encrypt the middle blocks is 18 clocks.

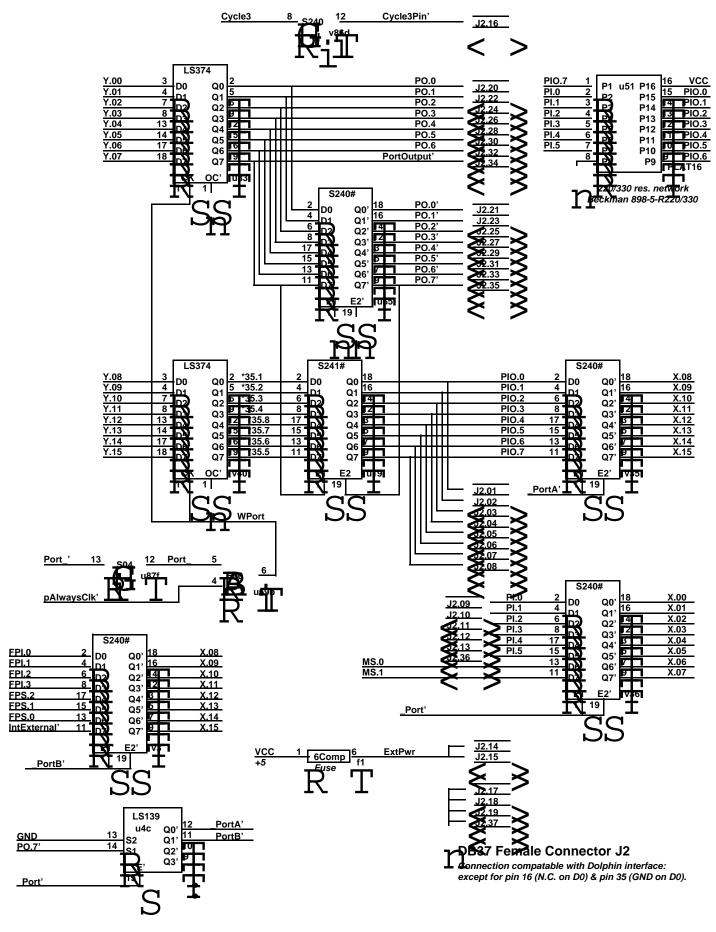
One possible pipelining scheme

WARNING! This data is not guaranteed to be correct!



WARNING! This data is not guaranteed to be correct!

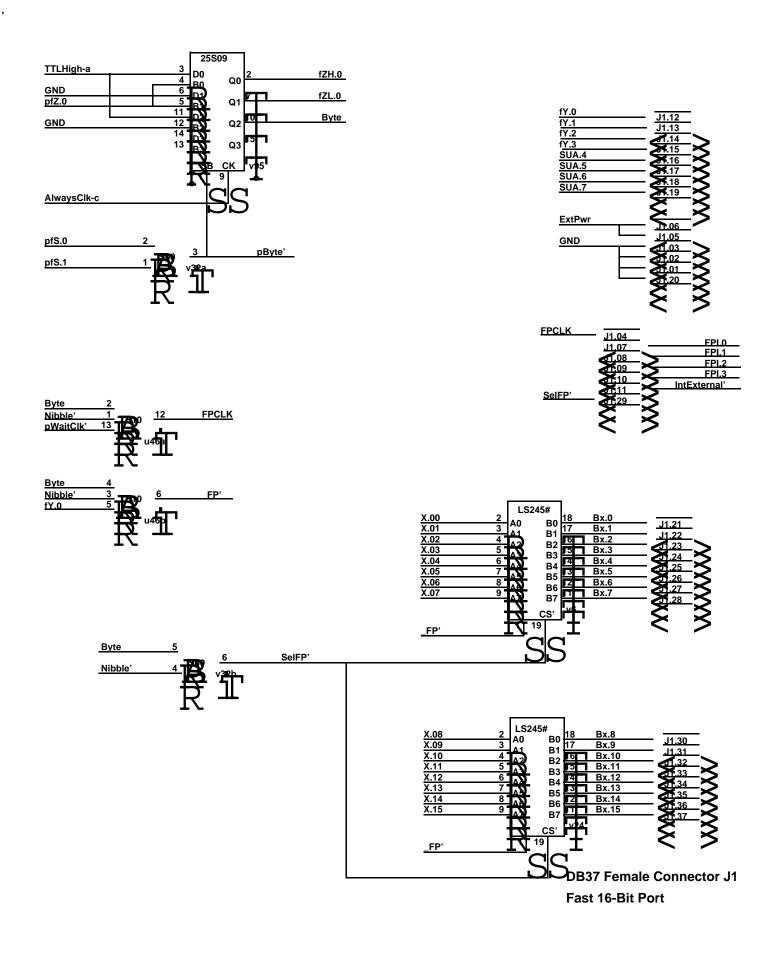
| PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS | | | DWG SIZE | DWG NO. | 156P1 | 2560 | SHEET REV. |
|---|-------------------------|-----------|-------------|---------|-------|------|---------------|
| XEROX | TITLE SCHEMATIC, CPE-FP | Reference | A4 | SHEET | 35 | OF | A |



| | PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS | DWG SIZE | DWG NO. | 156P1 | 2560 | SHEET REV. |
|-------|---|-------------|---------|-------|------|---------------|
| XEROX | TITLE SCHEMATIC, CPE-FP | A4 | SHEET | 36 | OF | A |

| vcc | • | 1 | 1 | ī | • | | 1 |
|-----|--|-------------------------------|-----------------------|-------------------|----------------------------|---|---|
| | 2 #C123 1 | 2 #C42 _1 | 2 ^{#C} 68 _1 | #C119 2 1 | #C4 21 | 2 ^{#C28} _1 | . #C147 21 |
| | | | | | | | |
| | | | | | | | |
| | # T | #C39 1 | T 1 | #C116 1 | 1 T | | #C150 1 |
| | 1 T | 1 T | | | | $\prod_{2}^{+} \prod_{1}^{+}$ | #C132 1 |
| | #C91 _1 | #C37 1 | | 1 T | | #C63 1 | 1 T |
| | | | | | | | |
| | 2 **C105 1 | 2 **C58* 1 | | 2 **C32 1 | | $\underset{\scriptscriptstyle{2^{-\#C15}}}{\overset{\scriptscriptstyle{+}}{\prod}}$ | 2 **C136 1 |
| | #C78 | R + T | R T | #C44 | R T | R T | F1 + T |
| | | | | | | | |
| | #C26 T | #C55 | 1. #C103 | #C75 | #C18 T | R T | 1. #C139 |
| | | $\prod_{i=0}^{2} \frac{1}{i}$ | | $\frac{1}{R^{2}}$ | | | $\prod_{n=1}^{2} \prod_{n=1}^{\infty} \prod_{n$ |
| | $\prod_{i=0}^{2} \prod_{j=0}^{4} \prod_{i=0}^{4} \prod_{j=0}^{4} \prod_{j=0}^{4} \prod_{j=0}^{4} \prod_{i=0}^{4} \prod_{j=0}^{4} \prod_{i=0}^{4} \prod_{j=0}^{4} \prod_{j$ | | | | | | |
| | | | | | | | |
| | 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 2.#C70 2.#T7 | .#C100 2 1 | 2 + C89 1 1 T | 2.#C50 2.#C50 1.#C50 | .#C143 2 1 | 2.#C125 2 |
| | .#C22 21 | .#C69 2 1 | .#C99 21 | .#C3 2 1 | . #C9 2 _ 1 | .#C142 2 | .#C126 2 1 |
| | RIT | KL I | RLT | RLT | RLT | RLT | RLT |
| | n | n n | n | n | n | . n | n n |

| | PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS TITLE SCHEMATIC, CPE-FP | | DWG NO. 156P12560 | | SHEET |
|-------|--|--|-------------------|----|-------|
| XEROX | | | SHEET | 37 | OF |

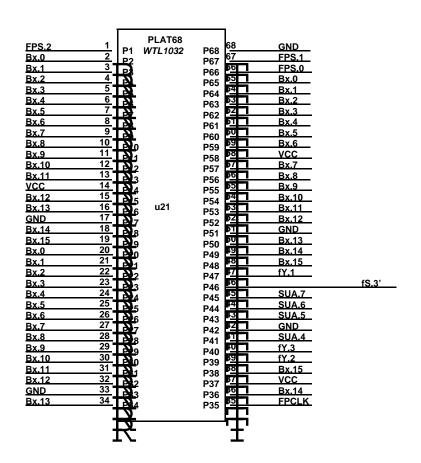


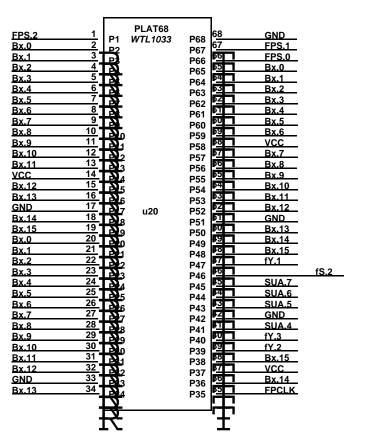
| | | | DWG NO. 156P12560 | | | SHEET REV. |
|-------|-------------------------|------------|-------------------|----|----|---------------|
| XEROX | TITLE SCHEMATIC, CPE-FP | SIZE A4 | SHEET | 38 | OF | Α |

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Old contents merged with next page

Floating Point Timing Diagram to be done

| | _ | | | |
|-------|---|------------|-------------------|-------|
| | PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS | | DWG NO. 156P12560 | SHEET |
| XEROX | TITLE SCHEMATIC, CPE-FP | SIZE A4 | SHEET 39 OF | REV. |

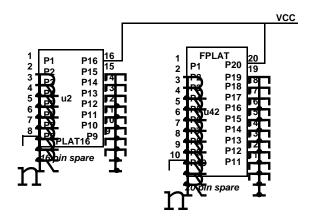


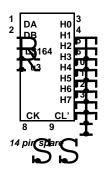


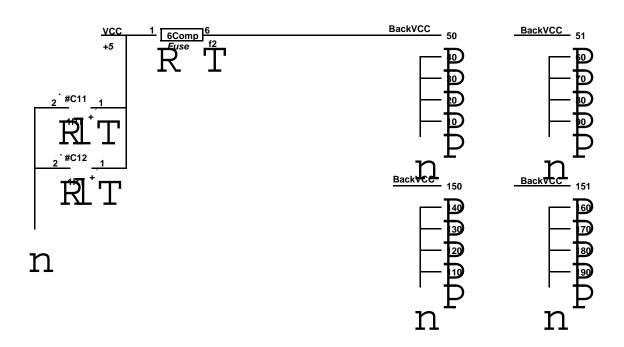
| | PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS | DWG | DWG NO. 156P12560 | SHEET |
|-------|---|------------|-------------------|-------|
| XEROX | TITLE SCHEMATIC, CPE-FP | SIZE A4 | SHEET 40 OF | REV. |

| Ü | | • | | _ |
|---|--------------------------------|---------------------------------------|---------------------------------------|--------------------|
| | 2 ^{#C133} _1 | 2 ^{#C113} _1 | 2 ^{#C64} _1 | 2 ^{#C2} 1 |
| | | | <u></u> ₽IŢ | |
| | | | | |
| | R T T | RIT | RT | |
| | TT | † † † † † † † † † † † † † † † † † † † | | |
| | 2 ^{#C134} 1 | 2 #C80 1 | 2 ^{#C} 111 1 | 2 #C155 1 |
| | #C122 1 | #C79 1 | #C36 1 | ŔĹŢ |
| | | | | |
| | T7 T7 | ŔŢ | T7 T | |
| | 2 ^{#C120} 1 | 2 #C106 1 | 2 ^{#C35} 1 | n |
| | KT.T | KT T | KT .T | |
| | 2 #C121 1 | 2 #C94 <u>1</u> | 2 ^{#C34} 1 | |
| | R T | <u>RL T</u> | 2#C 49 1 | |
| | RIT | RIT | # <u>C21</u> T | |
| | 2 ^{-#C124} _1 | 2 ^{-#C88} _1 | 2 1 | |
| | <u>L</u> 1 | 2 ^{#C61} _1 | 2 ^{-#C17} 1 | |
| | 1 +C108 1 | 12 +C65 1 | 1 + C48 1 | |
| | 1 ⁺ 51 ⁺ | 1 ⁺ 51 ⁺ | <u></u> | |
| | 2 ^{-#C128} 1 | #C47 | XL L | |
| | 2 #6126 1 1#\$¶ + | 2 <u>1</u> | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | |
| | 2 ^{-#C109} _1 | RIT | 2 ^{-#C74} 1 | |
| | | 2 ^{#C145} 1 | | |
| | ŔĹŢ | ŔĨŢ | ŔŢ | |
| | n | n | n | |
| | • | - | _ | |

| | PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS | | DWG NO. 156P12560 | SHEET |
|-------|---|------|-------------------|-------|
| XEROX | TITLE | SIZE | | REV. |
| 7.2 | TITLE SCHEMATIC, CPE-FP | A4 | SHEET 41 OF | Α |







| | | | DWG NO. 156P12560 | | | SHEET REV. |
|-------|-------------------------|------------|-------------------|----|----|---------------|
| XEROX | TITLE SCHEMATIC, CPE-FP | SIZE A4 | SHEET | 42 | OF | A REV. |

Comments:

- 1) Designator notation notes: u1-99 = U1-99, v0-99 = U100-199, w0-99 = U200-299
- 2) The last item on lines below, preceded by a semicolon (;), is the schematic page number on which the test point, connector or signal information originates.
- 3) Line with no page number was a continuation of the previous line.

| #TP1 | .1i | 12BitCarry | ;04 | #TP153 | .1i | NIA.01′ | ;27 |
|------------------|-----|--------------------|------|------------------|-----|--------------|-----|
| #TP10 | .1i | IB.2 | ;07 | #TP154 | .1i | NIA.02′ | ;27 |
| #TP100 | .1i | prB.1 | ;20 | #TP155 | .1i | NIA.03′ | ;27 |
| #TP101 | .1i | prB.2 | ;20 | #TP156 | .1i | NIA.04′ | ;27 |
| #TP102 | .1i | prB.3 | ;20 | #TP157 | .1i | NIA.05′ | ;27 |
| #TP103 | .1i | paS.0 | ;20 | #TP158 | .1i | NIA.06′ | ;27 |
| #TP104 | .1i | paS.1 | ;20 | #TP159 | .1i | NIA.07′ | ;27 |
| #TP105 | .1i | paS.2 | ;20 | #TP16 | .1i | IBFront_ | ;07 |
| #TP106 | .1i | paF.0 | ;20 | #TP160 | .1i | NIA.08' | ;27 |
| #TP107 | .1i | paF.1 | ;20 | #TP161 | .1i | NIA.09' | ;27 |
| #TP108 | .1i | paF.2 | ;20 | #TP162 | .1i | NIA.10' | ;27 |
| #TP109 | .1i | paD.0 | ;20 | #TP163 | .1i | NIA.11' | ;27 |
| #TP11 | .1i | IB.3 | ;07 | #TP17 | .1i | GoodIBDispc2 | ;07 |
| #TP110 | .1i | paD.1 | ;20 | #TP172 | .1i | IBPtr.0 | ;07 |
| #TP111 | .1i | pEP | ;20 | #TP173 | .1i | IBPtr.1 | ;07 |
| #TP112 | .1i | pCIN-SE-wrSU | ;20 | #TP174 | .1i | ExitKernel' | ;11 |
| #TP113 | .1i | pEnableSU | ;20 | #TP175 | .1i | EnterKernel' | ;11 |
| #TP114 | .1i | pmem | ;20 | #TP176 | .1i | ClrIntErr' | ;11 |
| #TP115 | .1i | pfS.0 | ;20 | #TP177 | .1i | IBDisp' | ;11 |
| #TP116 | .1i | pfS.1 | ;20 | #TP178 | .1i | MesaIntRq' | ;11 |
| #TP117 | .1i | pfS.2 | ;20 | #TP179 | .1i | IBPtr 1' | ;11 |
| #TP118 | .1i | pfS.3 | ;20 | #TP18 | .1i | RefillIntc2 | ;07 |
| #TP119 | .1i | pfY.0 | ;20 | #TP180 | .1i | IBPtr_0' | ;11 |
| #TP12 | .1i | IB.4 | ;07 | #TP181 | .1i | PopZ' | ;11 |
| #TP120 | .1i | pfY.1 | ; 20 | #TP182 | .1i | ib' | ;11 |
| #TP121 | .1i | pfY.2 | ;20 | #TP19 | .1i | SelectIB0' | ;07 |
| #TP122 | .1i | pfY.3 | ;20 | #TP192 | .1i | pPC16' | ;17 |
| #TP123 | .1i | INIA.00 | ;20 | #TP199 | .1i | EmuMemErr | ;17 |
| #TP124 | .1i | INIA.01 | ;20 | #TP2 | .1i | PageCross | ;04 |
| #TP125 | .1i | INIA.01 | ;20 | #TP20 | .1i | pIBPtr.0 | ;07 |
| #TP125 | .1i | INIA.02 INIA.03 | ;20 | #TP200 | .1i | *23.4 | ;24 |
| #TP120 | .1i | pfX.0 | ;21 | #TP200 #TP201 | .1i | *23.5 | ;24 |
| #TP127 | .1i | pfX.1 | ;21 | #TP201 #TP202 | .1i | *23.1 | ;24 |
| #TP128 | .1i | pfX.2 | ;21 | #TP202 #TP203 | .1i | *23.2 | ;24 |
| #TP129 | .1i | IB.5 | ; 07 | #TP203 | .1i | *23.3 | ;24 |
| #TP130 | .1i | pfX.3 | ;21 | #TP204 #TP205 | .1i | *23.6 | ;24 |
| | .1i | INIA.04 | ;21 | #TP205 #TP21 | .1i | | ;07 |
| #TP131 #TP132 | .1i | | ;21 | #TP21 #TP22 | .1i | pIBPtr.1 | ;07 |
| | .1i | INIA.05 | ;21 | | .1i | SelectIB1' | ;10 |
| #TP133 | | INIA.06 | | #TP23 | | MAR_' | |
| #TP134 | .1i | INIA.07 | ;21 | #TP24 | .1i | DispBr.0' | ;13 |
| #TP135 | .1i | pfZ.0 | ; 21 | #TP25 | .1i | DispBr.1' | ;13 |
| #TP136 | .1i | pfZ.1 | ;21 | #TP26 | .1i | DispBr.2' | ;13 |
| #TP137 | .1i | pfZ.2 | ; 21 | #TP27 | .1i | DispBr.3A' | ;13 |
| #TP138 | .1i | pfZ.3 | ; 21 | #TP28 | .1i | DispBr.3B' | ;13 |
| #TP139 | .1i | INIA.08 | ;21 | #TP29 | .1i | pNIA.00' | ;14 |
| #TP14 | .1i | IB.6 | ; 07 | #TP3 | .1i | R.00 | ;04 |
| #TP140 | .1i | INIA.09 | ;21 | #TP30 | .1i | pNIA.01' | ;14 |
| #TP141 | .1i | INIA.10 | ;21 | #TP31 | .1i | pNIA.02′ | ;14 |
| #TP142 | .1i | INIA.11 | ;21 | #TP32 | .1i | pNIA.03' | ;14 |
| #TP15 | .1i | IB.7 | ;07 | #TP33 | .1i | pNIA.04' | ;14 |
| #TP152 | .1i | NIA.00' | ; 27 | #TP34 | .1i | pNIA.05' | ;14 |

| | PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS | DWG | DWG NO. 156P12560 | SHEET |
|-------|---|------------|-------------------|--------|
| XEROX | TITLE SCHEMATIC, CPE-FP | SIZE A4 | SHEET 42 OF | A REV. |

| #TP35 | .1i | pNIA.06' | ;14 | #TP91 | .1i | pKR′ | ;17 |
|----------------|------------|-----------|------|-------|-------|------------|-----|
| #TP36 | .1i | pNIA.07' | ;14 | #TP93 | .1i | KernReq' | ;17 |
| #TP37 | .1i | pTC.0 | ;14 | #TP94 | .1i | pc16' | ;17 |
| #TP38 | .1i | pNIA.08' | ;14 | #TP95 | .1i | prA.0 | ;20 |
| #TP39 | .1i | pTC.1 | ;14 | #TP96 | .1i | prA.1 | ;20 |
| #TP4 | .1i | R.15 | ;04 | #TP97 | .1i | prA.2 | ;20 |
| #TP40 | .1i | pNIA.09' | ;14 | #TP98 | .1i | prA.3 | ;20 |
| #TP41 | .1i | pTC.2 | ;14 | #TP99 | .1i | prB.0 | ;20 |
| #TP42 | .1i | pNIA.10' | ;14 | #15// | • + + | PIB.0 | 720 |
| #TP43 | .1i | pTC.3 | ;14 | E002 | | Cycle1' | ;18 |
| #TP43 | .1i | pNIA.11' | ;14 | E002 | | Cycle1' | ;18 |
| | .1i | TPC.00' | | | | | |
| #TP45 | .1i | | ;15 | E004 | | Cycle3' | ;18 |
| #TP46 | | TPC.01' | ;15 | E009 | | ppClk | ;18 |
| #TP47 | .1i | TPC.02' | ;15 | E010 | | GND | ;42 |
| #TP48 | .1i | TPC.03' | ;15 | E011 | | AllowMDR_ | ;10 |
| #TP49 | .1i | TPC.04' | ;15 | E015 | | MapRef | ;12 |
| #TP5 | .1i | Q.00 | ;04 | E016 | | Refresh | ;12 |
| #TP50 | .1i | TPC.05' | ;15 | E017 | | Wait | ;18 |
| #TP51 | .1i | TPC.06' | ; 15 | E020 | | GND | ;42 |
| #TP52 | .1i | TPC.07' | ;15 | E021 | | IOPOData_' | ;11 |
| #TP53 | .1i | TPC.08' | ;15 | E022 | | KOData_' | ;11 |
| #TP54 | .1i | TPC.09' | ;15 | E023 | | EOData_' | ;11 |
| #TP55 | .1i | TPC.10' | ;15 | E024 | | DCtlFifo_' | ;11 |
| #TP56 | .1i | TPC.11' | ;15 | E025 | | DBorder_' | ;11 |
| #TP57 | .1i | pLink.0' | ;15 | E026 | | _TStatus′ | ;11 |
| #TP58 | .li | pLink.1' | ;15 | E027 | | KCmd_' | ;11 |
| #TP59 | .1i | pLink.2' | ;15 | E028 | | POData_' | ;11 |
| #TP6 | .1i | Q.15 | ;04 | E030 | | GND | ;42 |
| #TP60 | .1i | pLink.3′ | ;15 | E031 | | _EIData' | ;11 |
| #TP61 | .1i | TCY.0 | ;15 | E032 | | _KIData' | ;11 |
| #TP62 | .1i | TCY.1 | ;15 | E033 | | _KTest′ | ;11 |
| #TP63 | .1i | TCY.2 | ;15 | E034 | | _IOPIData′ | ;11 |
| #TP64 | .1i | TCY.3 | ;15 | E035 | | EStrobe' | ;11 |
| #TP65 | .1i | Ct.0 | ;16 | E037 | | CSParErr | ;24 |
| #TP66 | .1i | Ct.1 | ;16 | E039 | | YIODisp.0 | ;13 |
| #TP67 | .1i | Ct.2 | ;16 | E040 | | GND | ;42 |
| #TP68 | .1i | Ct=Emu | ;16 | E041 | | X.00 | ;03 |
| #TP69 | .1i | Pt=Emu | ;16 | E042 | | X.02 | ;03 |
| #TP7 | .1i | CIN-SE | ;04 | E043 | | X.04 | ;03 |
| #TP70 | .1i | Nt.0 | ;16 | E044 | | X.06 | ;03 |
| #TP71 | .1i | Nt.1 | ;16 | E045 | | X.08 | ;03 |
| #TP72 | .1i | Nt.2 | ;16 | E046 | | X.10 | ;03 |
| #TP73 | .1i | Nt=Emu | ;16 | E047 | | X.12 | ;03 |
| #TP74 | .1i | Swc2 | ;16 | E048 | | X.14 | ;03 |
| #TP75 | .1i | Swc2' | ;16 | E049 | | Y.00 | ;03 |
| #TP76 | .1i | *23.7 | ; 24 | E050 | | BackVCC | ;42 |
| #TP77 | .1i | *23.8 | ;24 | E051 | | BackVCC | ;42 |
| #TP78 | .1i | MesaInt | ;24 | E052 | | Y.02 | ;03 |
| #TP79 | .1i | EKTrapc2' | ;17 | E052 | | Y.04 | ;03 |
| #TP8 | .1i | IB.0 | ;07 | E054 | | Y.06 | ;03 |
| #TP80 | .1i | EKTrapc2 | ;17 | E055 | | Y.08 | ;03 |
| #TP81 | .1i | EKErr.0' | ;17 | E056 | | Y.10 | ;03 |
| #TP81 #TP82 | .1i | EKErr.1' | ;17 | E057 | | Y.12 | ;03 |
| | .11 .1i | | | | | | |
| #TP83 | | PEKT | ;17 | E058 | | Y.14 | ;03 |
| #TP84 | .li | pEKT | ;17 | E059 | | YH.O | ;06 |
| #TP85 | .li | pEK0' | ;17 | E060 | | GND | ;42 |
| #TP86 | .1i | pEK1′ | ;17 | E061 | | YH.2 | ;06 |
| #TP87 | .1i | pSE | ;17 | E062 | | YH.4 | ;06 |
| #TP9 | .1i | IB.1 | ;07 | E063 | | YH.6 | ;06 |
| | | | | | | | |

| | PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS | DWG | DWG NO. 156P12560 | SHEET |
|-------|---|------------|-------------------|-------|
| XEROX | TITLE SCHEMATIC, CPE-FP | SIZE A4 | SHEET 43 OF | REV. |

| E064 | Pt.0 | ;16 | E155 | | Y.09 | ;03 |
|------|-------------|------|------|-----|--------------|-----|
| E065 | Pt.2 | ;16 | E156 | | Y.11 | ;03 |
| E066 | Disp-Proc' | ;18 | E157 | | Y.13 | ;03 |
| E070 | GND | ; 42 | E157 | | Y.15 | ;03 |
| | | | | | | |
| E077 | IOPAddr.14 | ;19 | E159 | | YH.1 | ;06 |
| E080 | GND | ;42 | E160 | | GND | ;42 |
| E081 | pCSWE.a' | ;19 | E161 | | YH.3 | ;06 |
| E082 | pCSWE.c' | ;19 | E162 | | YH.5 | ;06 |
| E083 | pCSWE.e' | ;19 | E163 | | YH.7 | ;06 |
| E084 | IOPReq' | ;16 | E164 | | Pt.1 | ;16 |
| E085 | | ;16 | E166 | | MemErrc3 | ;17 |
| | DPReq' | | | | | |
| E086 | EReq' | ;16 | E170 | | GND | ;42 |
| E087 | KReq' | ;16 | E176 | | IOPAddr.13 | ;19 |
| E088 | RefReq' | ;16 | E177 | | IOPAddr.15 | ;19 |
| E089 | EORound | ;16 | E180 | | GND | ;42 |
| E090 | GND | ;42 | E181 | | pCSWE.b' | ;19 |
| E091 | WrTPCHigh' | ;19 | E182 | | pCSWE.d' | ;19 |
| E092 | IOPData.0 | ;19 | E183 | | pCSWE.f' | ;19 |
| | | | | | | |
| E093 | IOPData.2 | ;19 | E185 | | ClrDPReq' | ;11 |
| E094 | IOPData.4 | ;19 | E186 | | ClrRefReg' | ;11 |
| E095 | IOPData.6 | ;19 | E187 | | ClrKFlags' | ;11 |
| E096 | SwTAddr | ;19 | E188 | | ReadCSEn′ | ;25 |
| E102 | Click.0 | ;16 | E189 | | IOPWait | ;18 |
| E103 | Click.1 | ;16 | E190 | | GND | ;42 |
| E104 | Click.2 | ;16 | E191 | | WrTPCLow | ;18 |
| | | | | | | |
| E110 | GND | ; 42 | E192 | | IOPData.1 | ;19 |
| E113 | mem | ;10 | E193 | | IOPData.3 | ;19 |
| E114 | _MStatus′ | ;11 | E194 | | IOPData.5 | ;19 |
| E115 | MCtl_' | ;11 | E195 | | IOPData.7 | ;19 |
| E117 | IOPReset' | ; 26 | E196 | | SwTAddr′ | ;19 |
| E120 | GND | ;42 | | | | |
| E121 | IOPCtl_' | ;11 | J1 | .01 | GND | ;38 |
| E122 | KCtl_' | ;11 | J1 | .02 | GND | ;38 |
| | | | | | | |
| E123 | EICtl_' | ;11 | J1 | .03 | GND | ;38 |
| E124 | DCtl_' | ;11 | J1 | .04 | FPCLK | ;38 |
| E126 | EOCtl_' | ;11 | J1 | .05 | ExtPwr | ;38 |
| E127 | _TIData′ | ;11 | J1 | .06 | ExtPwr | ;38 |
| E128 | PCtl ' | ;11 | J1 | .07 | FPI.0 | ;38 |
| E130 | GND | ;42 | J1 | .08 | FPI.1 | ;38 |
| E131 | _EIStatus′ | ;11 | J1 | .09 | FPI.2 | ;38 |
| E132 | _KStatus' | ;11 | | .10 | FPI.3 | ;38 |
| | | | J1 | | | |
| E133 | KStrobe' | ;11 | J1 | .11 | IntExternal' | ;38 |
| E134 | _IOPStatus' | ;11 | J1 | .12 | fY.0 | ;38 |
| E139 | YIODisp.1 | ;13 | J1 | .13 | fY.1 | ;38 |
| E140 | GND | ;42 | J1 | .14 | fY.2 | ;38 |
| E141 | X.01 | ;03 | J1 | .15 | fY.3 | ;38 |
| E142 | X.03 | ;03 | J1 | .16 | SUA.4 | ;38 |
| E143 | X.05 | ;03 | J1 | .17 | SUA.5 | ;38 |
| | X.07 | | J1 | | | |
| E144 | | ;03 | | .18 | SUA.6 | ;38 |
| E145 | X.09 | ;03 | J1 | .19 | SUA.7 | ;38 |
| E146 | X.11 | ;03 | J1 | .20 | GND | ;38 |
| E147 | X.13 | ;03 | J1 | .21 | Bx.0 | ;38 |
| E148 | X.15 | ;03 | J1 | .22 | Bx.1 | ;38 |
| E149 | Y.01 | ;03 | J1 | .23 | Bx.2 | ;38 |
| E150 | BackVCC | ;42 | J1 | .24 | Bx.3 | ;38 |
| E151 | BackVCC | ;42 | J1 | .25 | Bx.4 | ;38 |
| | | | | | | |
| E152 | Y.03 | ;03 | J1 | .26 | Bx.5 | ;38 |
| E153 | Y.05 | ;03 | J1 | .27 | Bx.6 | ;38 |
| E154 | Y.07 | ;03 | J1 | .28 | Bx.7 | ;38 |
| | | | | | | |

| | PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS | DWG SIZE | DWG NO. | 156P | 12560 | SHEET REV. | I |
|-------|---|-------------|---------|------|-------|---------------|---|
| XEROX | TITLE SCHEMATIC, CPE-FP | A4 | SHEET | 44 | OF | A | |

| J1 .29 | SelFP' | ;38 | *04.15: | v68.12o, v83.13i ;05 |
|------------------|----------------------|------------|-----------|-------------------------------|
| J1 .30 | Bx.8 | ;38 | | |
| J1 .31 | Bx.9 | | *04.16: | v68.10o, v83.11i ;05 |
| J1 .32 | Bx.10 | ;38 | .04 15 | 41 10 00 01 .05 |
| J1 .33 | Bx.11 | | *04.17: | v41.10o, v83.8i ;05 |
| J1 .34 | Bx.12 | ;38 | *04 10. | v41.12o, v83.6i ;05 |
| J1 .35 J1 .36 | Bx.13 Bx.14 | ;38 ;38 | "04.10. | V41.120, V63.61 ,U5 |
| J1 .37 | Bx.15 | | *04.19: | v41.14o, v83.4i ;05 |
| | | | | |
| J2 .01 J2 .02 | PIO.0 PIO.1 | ;36 ;36 | *04.1: | v58.4o, u89.4i ;05 |
| J2 .03 | PIO.2 | | *04 20: | v41.16o, v83.2i ;05 |
| J2 .04 | PIO.3 | ;36 | 01.20 | VII.100, V03.21 , 03 |
| J2 .05 | PIO.4 | | *04.2: | v58.7o, u89.5i ;05 |
| J2 .06 | PIO.5 | ;36 | | |
| J2 .07 | PIO.6 | | *04.3: | v58.9o, u89.12i ;05 |
| J2 .08 | PIO.7 | ;36 | | |
| J2 .09 | PI.0 | | *04.4: | v58.12o, u89.13i ;05 |
| J2 .10 | PI.1 | ; 36 | | |
| J2 .11 | PI.2 | | *04.5: | v42.16o, v84.2i ;05 |
| J2 .12 J2 .13 | PI.3 | ;36 ;36 | *04 6: | v42.14o, v84.4i ;05 |
| J2 .13 | PI.4 ExtPwr | ;36 | | V42.140, V84.41 ,U3 |
| J2 .15 | ExtPwr | | *04 7: | v42.12o, v84.6i ;05 |
| J2 .16 | Cycle3Pin' | ;36 | 01.7 | V12.120, V01.01 , 03 |
| J2 .17 | GND | | *04.8: | v42.10o, v84.8i ;05 |
| J2 .18 | GND | ;36 | | |
| J2 .19 | GND | ;36 | *04.9: | v69.10o, v84.11i ;05 |
| J2 .20 | PO.0 | ;36 | | |
| J2 .21 | PO.0' | | *06.1: | v78.2o, v65.3i, v37.2o ;07 |
| J2 .22 | PO.1 | ; 36 | 1.06.0 | 50 5 65 41 05 5 A |
| J2 .23 | PO.1' | ; 36 | *06.2: | v78.50, v65.4i, v37.50 ;07 |
| J2 .24 J2 .25 | PO.2 PO.2' | ;36 ;36 | *06 3. | v78.60, v65.7i, v37.60 ;07 |
| J2 .26 | PO.3 | ;36 | 00.5. | V70.00, V03.71, V37.00 707 |
| J2 .27 | PO.3' | | *06.4: | v78.90, v65.8i, v37.90 ;07 |
| J2 .28 | PO.4 | ;36 | | |
| J2 .29 | PO.4' | ;36 | *06.5: | v78.12o, v65.13i, v37.12o ;07 |
| J2 .30 | PO.5 | ;36 | | |
| J2 .31 | PO.5′ | ;36 | *06.6: | v78.15o, v65.14i, v37.15o ;07 |
| J2 .32 | PO.6 | ; 36 | 1.06 | FO 16 (F 18) OF 16 (OF |
| J2 .33 | PO.6' | ; 36 | *06.7: | v78.16o, v65.17i, v37.16o ;07 |
| J2 .34 J2 .35 | PortOutput' PO.7' | ;36 ;36 | *06.8: | v78.19o, v65.18i, v37.19o ;07 |
| J2 .36 | PI.5 | ;36 | 00.8. | V70.190, V03.101, V37.190 707 |
| J2 .37 | GND | ;36 | *15.1: | v97.13o, v85.19i ;16 |
| | | | | 25 11 22 51 |
| *04 10: | | | *17.1: | u35.11o, v22.5i ;18 |
| *04.10: v69.12 | o, v84.13i ;05 | | *17.2: | u31.11o, v05.9i ;18 |
| *04.11: v69.14 | o, v84.15i ;05 | | "1/.Z· | u31.110, v05.91 /18 |
| 04.11. 000.14 | .O, VOT.IJI /UJ | | *17.3: | u35.6o, v97.9i ;18 |
| *04.12: v69.16 | o, v84.17i ;05 | | ± / • J • | 455.50, V27.21 110 |
| | ., ,00 | | *23.10: | u22.5o, u28.3i ;24 |
| *04.13: v68.16 | o, v83.17i ;05 | | | · |
| | | | *23.11: | u23.5o, u28.4i ;24 |
| *04.14: v68.14 | o, v83.15i ;05 | | | 0.00 |
| | | | *23.12: | u27.5o, u28.14i ;24 |
| | | | | |

| | PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS | DWG | DWG NO. 156P12560 | SHEET |
|-------|---|------------|-------------------|-------|
| XEROX | TITLE SCHEMATIC, CPE-FP | SIZE A4 | SHEET 45 OF | REV. |

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*35.7: v40.15o, u19.15i ;36
*23.13: u24.5o, u28.7i ;24
                                             *35.8: v40.12o, u19.17i ;36
*23.14: u25.5o, u28.8i ;24
                                                           u81.29i ;03
                                             12BitCarry:
*23.15: u26.5o, u28.13i
                         ;24
                                             12BitCarry:
                                                           u90.9o, #TP1.1i
                                                                             ;04
*23.16: u85.14o, u35.9i
                          ;24
                                             12BitGen': u80.32o ;03
                                             12BitGen': u90.14i ;04
*23.1: #TP202.1i, u28.6o, u29.1i
                                  ;24
                                             12BitProp':
                                                           u80.35o ;03
       #TP203.1i, u28.9o, u29.2i ;24
                                             12BitProp':
*23.2:
                                                           u90.15i ;04
      #TP204.1i, u28.12o, u29.3i ;24
*23.3:
                                                     v51.2i, v52.2i, v53.2i ;19
                                             18.1:
                                                     v54.2i, v55.2i, v72.3i
                                             18.1:
*23.4: #TP200.1i, u28.2o, u29.16i ;24
                                             18.1:
                                                     v70.18o, v50.2i
*23.5: #TP201.1i, u28.5o, u29.17i ;24
                                             18.2:
                                                     v51.4i, v52.4i, v53.4i ;19
                                                     v54.4i, v55.4i, v72.4i
                                             18.2:
*23.6: #TP205.1i, u28.15o, u29.4i ;24
                                             18.2:
                                                     v73.2i, v70.16o, v50.4i
*23.7: #TP76.1i, u29.11o, u64.14i ;24
                                             18.3:
                                                     v51.6i, v52.6i, v53.6i
                                             18.3:
                                                     v54.6i, v55.6i, v72.7i
*23.8: #TP77.1i, u35.8o, u64.17i ;24
                                             18.3:
                                                     v73.4i, v70.14o, v50.6i
*23.9: u29.13o, u35.10i ;24
                                             18.4:
                                                     v51.8i, v52.8i, v53.8i
                                                     v54.8i, v55.8i, v72.8i
                                             18.4:
*25.1: u04.5o, u13.6i ;26
                                             18.4:
                                                     v73.6i, v70.12o, v50.8i
*25.2: u04.6o, u13.11i
                          ;26
                                             18.5:
                                                     v51.17i, v52.17i, v53.17i
                                                                                ;19
                                             18.5:
                                                     v54.17i, v55.17i, v72.13i
                                                     v73.8i, v70.3o, v50.17i
*25.3: u04.7o, u13.14i
                                             18.5:
                          ;26
*25.4: u04.4o, u13.3i ;26
                                             18.6:
                                                     v51.15i, v52.15i, v53.15i
                                                     v54.15i, v55.15i, v72.14i
                                             18.6:
*29.1:
      u69.3o, v56.11i
                          ;30
                                             18.6:
                                                     v73.17i, v70.5o, v50.15i
*29.2: v01.31o, u64.18i
                          ;30
                                             18.7:
                                                     v51.13i, v52.13i, v53.13i
                                                                                ;19
                                                     v54.13i, v55.13i, v72.17i
                                             18.7:
*29.3: v01.15o, v33.13i
                                                     v73.15i, v70.7o, v50.13i
                          ;30
                                             18.7:
*29.4: u69.8o, v34.11i
                          ;30
                                             18.8:
                                                     v51.11i, v52.11i, v53.11i
                                                                               ;19
                                                     v54.11i, v55.11i, v72.18i
                                             18.8:
*29.5: u87.8o, u69.1i ;30
                                             18.8:
                                                     v73.13i, v70.9o, v50.11i
*30.1: u69.11o, u14.10i ;31
                                             4BitCarry: v08.29i
                                                                 ;03
                                             4BitCarry: u90.120
*35.1: v40.2o, u19.2i ;36
                                             4BitCarry: v07.12i
                                                                ;13
*35.2: v40.5o, u19.4i ;36
                                             4BitGen':
                                                        v09.32o
                                                                 ;03
                                             4BitGen':
                                                        u90.3i
                                                                 ;04
*35.3: v40.6o, u19.6i ;36
                                             4BitProp': v09.350
                                                                 ;03
*35.4: v40.9o, u19.8i ;36
                                             4BitProp': u90.4i
                                                                 ;04
*35.5: v40.19o, u19.11i ;36
                                             8BitCarry: u80.29i
                                                                ;03
                                             8BitCarry: u50.2i, u90.11o
                                                                          ;04
*35.6: v40.16o, u19.13i ;36
                                             8BitCarry: v07.15i ;13
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| | PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS | DWG | DWG NO. 156P12560 | SHEET |
|-------|---|------------|-------------------|-------|
| XEROX | TITLE SCHEMATIC, CPE-FP | SIZE A4 | SHEET 46 OF | REV. |

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8BitGen':
           v08.32o ;03
                                                AlwaysClk-b:
                                                               u67.11i
8BitGen':
           u90.1i
                     ;04
                                                AlwaysClk-b:
                                                               v21.4o
                                                                         ;18
                                                AlwaysClk-b:
                                                               u13.9i
                                                                         ;26
8BitProp': v08.350
                     ;03
                                                AlwaysClk-b:
                                                               u47.9i
                                                                         ;26
8BitProp': u90.2i
                     ;04
                                                AlwaysClk-b:
                                                               u05.2i
                                                                         ;28
                                                AlwaysClk-b:
                                                               u28.11i
                                                                         ;29
aD.0': u63.15i, u87.2o, u62.1i ;04
                                                AlwaysClk-c:
                                                               v16.11i
                                                                         ;10
aD.0:
        u81.7i
                  ;03
                                                AlwaysClk-c:
                                                               v17.11i
                                                                         ;10
aD.0:
        u80.7i
                  ;03
                                                AlwaysClk-c:
                                                               v76.11i
                                                                        ;15
aD.0:
        v09.7i
                  ;03
                                                AlwaysClk-c:
                                                               v62.11i
                                                                        ;15
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                                                           u80.30i
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                                                           v08.30i
fY.2:
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                                                  GND:
                                                           v09.30i
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                                                           u80.40i
fY.3:
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                                                  GND:
                                                                     ;03
fY.3:
        u67.150
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                                                  GND:
                                                           v09.40i
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fY.3:
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                                                  GND:
                                                           v08.40i
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fY.3:
        v57.1i
                   ;11
                                                  GND:
                                                           u81.40i
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fY.3:
        v67.1i
                   ;11
                                                  GND:
                                                           v42.19i
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fY.3:
        v89.1i
                   ;11
                                                           v69.19i
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                                                                     ;05
fY.3:
        v07.11i
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                                                           v41.19i
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fY.3:
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                                                  GND:
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                                                           v41.18i
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                                                  GND:
fz.0:
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                                                  GND:
                                                           v69.18i
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fZ.1:
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fz.2:
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fz.2:
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fz.2:
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                                                  GND:
                                                           v59.3i
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                                                           u67.1i
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fZ.3:
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                                                           v45.13i
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fZ.3:
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                                                           v75.13i
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fZL.0:
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fZL.0:
        u33.5i
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GND:
        u16.14i
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                                                          #C99.1o, #C100.1o, #C101.1o
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                                                          #C81.10, #C82.10, #C83.10
GND:
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                                                 GND:
GND:
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        u01.9i
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NIAX.01': v72.12o ;19
                                        Nt.0: v72.2o ;19
NIAX.02': v74.6i, v76.6o ;15
                                                v75.15i, v74.15i, v44.15i ;15
                                        Nt.1:
NIAX.02': v72.15o ;19
                                         Nt.1:
                                                v45.15i ;15
                                         Nt.1:
                                                #TP71.1i, v85.5o, u73.12o ;16
NIAX.03': v74.4i, v76.90 ;15
                                         Nt.1:
                                                u49.4i
NIAX.03': v72.16o ;19
                                         Nt.1:
                                                v63.4i
                                                        ;16
                                                v72.50 ;19
                                         Nt.1:
NIAX.04': v75.12i, v76.12o ;15
NIAX.04': v72.19o ;19
                                         Nt.2:
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                                         Nt.2:
                                               v45.1i ;15
NIAX.05': v75.10i, v76.15o ;15
                                         Nt.2:
                                               #TP72.1i, v85.7o, u73.13o ;16
NIAX.05': v73.18o ;19
                                         Nt.2: u49.7i
                                         Nt.2: v63.7i ;16
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               ;19
                                            pAlwaysClk':
                                                          u69.2i
                                            pAlwaysClk':
                                                          u69.10i
                                                                   ;30
Nt=Emu: #TP73.1i, v85.9o, u73.14o ;16
                                            pAlwaysClk':
                                                          u69.12i
                                                                   ;31
Nt=Emu: u49.8i
                                            pAlwaysClk':
                                                          u69.4i
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Overflow:
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                                            paS.0:
                                                    v17.13i
                                                             ;10
Overflow:
          v49.12i ;13
                                            paS.0:
                                                    u31.1i
                                                              ;10
                                            paS.0:
                                                    v51.18o
                                                             ;19
                                                                         ;20
paD.0: v16.13i ;10
                                            paS.0:
                                                    #TP103.1i, v11.12o
paD.0:
       v51.7o
                ;19
                                            paS.0:
                                                    u37.12o ;21
paD.0:
       #TP109.1i, v26.14o
                                            paS.0:
                                                    u75.12o
                                                             ;22
paD.0:
       u56.14o ;21
                                            paS.0:
                                                    u23.1i
                                                             ;24
                ;22
       u93.14o
                                            paS.0:
                                                    u06.3i
                                                             ;25
paD.0:
       u23.11i ;24
paD.0:
       u09.3i
                ;25
                                                    v17.14i ;10
paD.0:
                                            paS.1:
                                            paS.1:
                                                    u99.4i
                                                              ;10
paD.1: v16.14i ;10
                                                    v51.16o
                                                             ;19
                                            paS.1:
                                                    #TP104.1i, v11.13o
paD.1:
       v51.9o
                ;19
                                            paS.1:
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        #TP110.1i, v26.15o
                                                    u37.13o
paD.1:
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                                            paS.1:
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paD.1: u56.15o ;21
                                                    u75.13o
                                            paS.1:
                                                             ;22
paD.1: u93.15o
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                                                    u23.2i
                                                              ;24
                                            paS.1:
paD.1: u23.12i
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                                            paS.1:
                                                    u10.3i
                                                              ; 25
paD.1: u54.3i
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                                                    v17.17i
                                            paS.2:
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paF.0:
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                                            paS.2:
                                                    u99.5i
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paF.0:
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                                            paS.2:
       #TP106.1i, v11.150
                                                    #TP105.1i, v11.14o
paF.0:
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                                            paS.2:
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                                                    u37.14o ;21
paF.0:
       u37.15o ;21
                                            paS.2:
paF.0:
       u75.15o ;22
                                            paS.2:
                                                    u75.14o
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                                                    u23.4i
paF.0:
       u23.8i
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                                            paS.2:
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paF.0:
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                                            paS.2:
                                                    u07.3i
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                                            paSh.0: u31.3o, v17.18i
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paF.1: u99.12i ;10
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                                            pByte': v95.1i, v32.3o ;38
paF.1:
paF.1:
       #TP107.1i, v26.12o
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       u56.12o ;21
                                            pc16': u62.9i
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                                            pc16': v49.2i
paF.1:
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                                            pc16': u44.5i, u64.12o, #TP94.1i ;17
paF.1:
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paF.1:
                                            pCIN-SE-wrSU: u68.4i
paF.2: v16.18i ;10
                                            pCIN-SE-wrSU: v52.160 ;19
       u99.13i ;10
                                            pCIN-SE-wrSU: #TP112.1i, v12.13o
paF.2:
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       v51.5o
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                                            pCIN-SE-wrSU: u38.130 ;21
paF.2:
        #TP108.1i, v26.13o
                             ;20
                                            pCIN-SE-wrSU: u76.130 ;22
paF.2:
paF.2:
       u56.13o ;21
                                            pCIN-SE-wrSU: u24.2i
       u93.13o
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                                            pCIN-SE-wrSU: u10.2i
paF.2:
paF.2:
       u23.10i
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paF.2:
       u12.3i
                                            pCSWE.a': E81, v71.2i ;19
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                                            pCSWE.b': E181, v71.4i
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PageCross: v23.12i ;13
                                            pCSWE.c': E82, v71.6i ;19
pAllowMDR_: u31.60, v94.4i ;10
                                            pCSWE.d': E182, v71.8i
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pAlwaysClk': v05.13i, v05.10i ;18
                                            pCSWE.e': E83, v71.17i
                                                                      ;19
pAlwaysClk': v21.3i, v21.5i
pAlwaysClk': v97.1o, v21.1i
                                            pCSWE.f': E183, v71.15i ;19
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PCtl_': v89.14o, E128 ;11
                                          pfS.3: u54.2i
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pDesMpError: v18.12o, v33.8i ;32
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                                                           ;10
                                          pfX.0:
                                          pfX.0:
                                                  v54.18o ;19
pEK0': #TP85.1i, u45.13o, v02.13i ;17
                                          pfX.0:
                                                 v14.12o
                                                          ;20
                                          pfX.0: #TP127.1i, u40.12o
                                                                    ;21
pEK1': #TP86.1i, u45.14o, v02.14i ;17
                                          pfX.0: u78.12o ;22
                                                  u26.1i
                                          pfX.0:
                                                          ;24
       #TP83.1i, u45.11o, v02.7i ;17
                                                  u06.15i ;25
pEKT:
                                          pfX.0:
       #TP84.1i, u45.12o, v02.8i ;17
pEKT:
                                          pfX.1: u30.4i
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pEnableSU: u67.4i
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                                          pfX.1:
                                                  v54.16o ;19
pEnableSU: v52.14o ;19
                                          pfX.1: v14.13o ;20
pEnableSU: #TP113.1i, v12.14o
                                          pfX.1:
                                                 #TP128.1i, u40.13o
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pEnableSU: u38.14o ;21
                                                  u78.13o ;22
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pEnableSU: u76.14o ;22
                                          pfX.1:
                                                  u26.2i
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pEnableSU: u24.4i ;24
                                                  u10.15i
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                                          pfX.1:
pEnableSU: u07.2i
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                                                  u30.7i
                                          pfX.2:
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       v52.18o ;19
                                          pfX.2:
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pEP:
       #TP111.1i, v12.12o
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                                          pfX.2:
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pEP:
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                                          pfX.2: #TP129.1i, u40.14o
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                                          pfX.2: u78.14o ;22
       u76.12o ;22
pEP:
pEP:
       u24.1i
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                                          pfX.2:
                                                  u26.4i
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pEP:
       u06.2i
                ;25
                                          pfX.2: u07.15i ;25
pfS.0: u67.17i ;10
                                          pfX.3: u30.8i
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pfS.0:
       v52.3o
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                                          pfX.3:
                                                  v54.12o ;19
pfS.0: #TP115.1i, v27.12o
                                          pfX.3: v14.15o
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                                          pfX.3: #TP130.1i, u40.150
pfS.0: u57.12o ;21
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pfS.0: u94.12o ;22
                                          pfX.3: u78.150 ;22
pfS.0: u24.9i ;24
                                          pfX.3: u26.8i
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                                          pfX.3: u11.15i ;25
pfS.0: u08.2i
pfS.0: v32.2i
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                                          pfY.0: u68.5i
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pfS.1: u67.18i ;10
                                          pfY.0:
                                                  v53.18o ;19
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pfS.1: v52.5o
                                                 #TP119.1i, v13.12o
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pfS.1: #TP116.1i, v27.13o
                                          pfY.0:
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                                                  u39.12o ;21
       u57.13o ;21
                                                  u77.12o
pfS.1:
                                          pfY.0:
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       u94.13o ;22
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                                          pfY.0:
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                                          pfY.0:
pfS.1: u12.2i ;25
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pfS.1: v32.1i
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                                          pfY.1:
                                                  v53.16o ;19
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pfS.2: u91.1i, u89.1i ;05
                                                  #TP120.1i, v13.13o
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                                          pfY.1:
pfS.2: u68.12i ;10
                                                  u39.13o ;21
pfS.2: v52.7o
                                                  u77.13o ;22
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                                          pfY.1:
pfS.2: #TP117.1i, v27.14o
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                                          pfY.1:
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pfS.2: u57.14o ;21
                                          pfY.1:
                                                  u10.1i
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pfS.2:
      u94.14o ;22
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                                                  u67.13i ;10
pfS.2:
       u24.11i
                                          pfY.2:
pfS.2:
      u09.2i
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                                          pfY.2:
                                                  v53.14o
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                                          pfY.2:
                                                  #TP121.1i, v13.14o ;20
pfS.3: u68.13i ;10
                                          pfY.2: u39.14o ;21
pfS.3: v52.9o
                                          pfY.2: u77.14o ;22
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pfS.3: #TP118.1i, v27.15o
                                          pfY.2:
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                                                  u25.4i ;24
pfS.3: u57.150 ;21
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                                          pfY.2:
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pfS.3: u94.15o ;22
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pfY.3:
       v53.12o ;19
                                           PI.5:
pfY.3:
       #TP122.1i, v13.15o
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                                           PI.5:
                                                   u51.7i
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pfY.3:
       u39.15o ;21
pfY.3:
       u77.15o ;22
                                           pIBPtr.0: u64.3i
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pfY.3:
       u25.8i
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                                           pIBPtr.0: u43.11o, #TP20.1i ;07
pfY.3: u11.1i
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                                           pIBPtr.1: u64.4i
                                                               ;07
pfZ.0: v58.3i
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                                           pIBPtr.1: u43.12o, #TP21.1i ;07
pfZ.0: u30.13i ;10
pfZ.0: v55.18o ;19
                                           PIO.0: J2.01, u19.18o, v35.2i ;36
pfZ.0:
       v15.12o ;20
                                           PIO.0: u51.150 ;36
       #TP135.1i, u41.12o
pfZ.0:
                            ; 2.1
                                                   J2.02, u19.16o, v35.4i ;36
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                                           PIO.1:
pfZ.0:
       u27.1i
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                                           PIO.1:
                                                   u51.14o ;36
pfZ.0:
       u06.14i ;25
pfZ.0:
                                                   J2.03, u19.14o, v35.6i
pfZ.0: v95.4i, v95.5i ;38
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                                                   u51.13o ;36
                                           PIO.2:
pfZ.1: v58.6i
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pfZ.1: u30.14i ;10
                                           PIO.3:
                                                   J2.04, u19.12o, v35.8i ;36
pfZ.1: v55.160 ;19
                                           PIO.3:
                                                   u51.12o ;36
pfZ.1:
       v15.13o
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pfZ.1:
      #TP136.1i, u41.13o
                                           PIO.4:
                                                   J2.05, u19.30, v35.17i
                                                   u51.11o ;36
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                                           PIO.4:
       u27.2i
pfZ.1:
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pfZ.1: u10.14i
                                                   J2.06, u19.50, v35.15i ;36
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                                           PIO.5:
                                                   u51.10o ;36
                                           PIO.5:
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pfZ.2:
       v58.10i
pfZ.2:
       u30.17i
                ;10
                                           PIO.6:
                                                   J2.07, u19.70, v35.13i
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                                                   u51.9o
pfZ.2:
       v55.14o
                                           PIO.6:
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pfZ.2:
       v15.14o
                ;20
                                           PIO.7:
                                                   J2.08, u19.90, v35.11i ;36
       #TP137.1i, u41.14o
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pfZ.2:
       u79.14o ;22
                                           PIO.7:
                                                   u51.1i ;36
pfZ.2:
pfZ.2:
       u27.4i
                ;24
pfZ.2: u07.14i ;25
                                           pKR':
                                                  #TP91.1i, u44.9o, v94.17i ;17
pfZ.3:
       v58.13i
               ;05
                                           pLink.0': #TP57.1i, u84.11o ;15
pfZ.3:
      u30.18i ;10
                                           pLink.0': u86.2i
       v55.12o ;19
pfZ.3:
                                           pLink.1': #TP58.1i, u84.9o, u86.5i
pfZ.3:
       v15.15o ;20
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pfZ.3:
       #TP138.1i, u41.150
                            ;21
                                           pLink.2': #TP59.1i, u84.7o ;15
pfZ.3:
       u79.15o ;22
       u27.8i
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                                           pLink.2':
                                                      u86.10i
pfZ.3:
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                                           pLink.3':
                                                      #TP60.1i, u84.50 ;15
       J2.09, v36.2i
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                                           pLink.3': u86.13i
PI.0:
       u51.2i ;36
                                           pMAR_': u31.2i, u99.1i, u72.6o ;10
PI.1:
       J2.10, v36.4i
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                                           pMAR_': v94.3i
PI.1:
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                                           pMAS': v96.90, u85.4i ;32
PI.2:
       J2.11, v36.6i
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                                           pMDS': v96.10o, u85.5i
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       J2.13, v36.17i ;36
                                           pmem:
                                                   u72.5i
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PI.4:
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                                           pmem:
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pmem:
        u76.150
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pmem:
                                                      u65.14o, J2.25 ;36
        u24.8i
                 ;24
                                              PO.2':
pmem:
        u11.2i
                 ;25
pmem:
                                              PO.2:
                                                      u65.6i, u83.6o, J2.24
                                                                               ;36
pNIA.00': u48.4o, #TP29.1i
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           v76.3i
                                              PO.3':
                                                      u65.12o, J2.27 ;36
pNIA.00':
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pNIA.00':
           u47.3i
                    ;26
                                                      u65.8i, u83.9o, J2.26
                                              PO.3:
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pNIA.01':
          u48.7o, #TP30.1i
                                                      u65.3o, J2.29 ;36
pNIA.01':
           v76.4i
                    ;15
                                              PO.4':
pNIA.01':
           u47.6i
                    ;26
                                                      u65.17i, u83.12o, J2.28 ;36
                                              PO.4:
           u48.90, #TP31.1i
pNIA.02':
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           v76.7i
                                                      u65.50, J2.31 ;36
pNIA.02':
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                                              PO.5':
pNIA.02':
           u47.11i
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                                                      u65.15i, u83.15o, J2.30 ;36
                                              PO.5:
pNIA.03': u48.12o, #TP32.1i ;14
                                              PO.6':
pNIA.03':
           v76.8i
                    ;15
                                                      u65.7o, J2.33 ;36
pNIA.03':
           u47.14i ;26
                                              PO.6:
                                                      u65.13i, u83.16o, J2.32 ;36
pNIA.04':
           v43.4o, #TP33.1i
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pNIA.04':
           v76.13i
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                                              PO.7':
pNIA.04':
           u82.3i
                                              PO.7':
                                                      u04.14i
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pNIA.05':
           v43.7o, #TP34.1i
                                              POData_': v89.7o, E28 ;11
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pNIA.05':
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pNIA.05':
           u82.6i
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                                              Pop:
                                                      u17.11i
pNIA.06':
          v43.9o, #TP35.1i
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                                              Pop:
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pNIA.06':
           v76.17i ;15
pNIA.06':
                                              PopX':
                                                      u15.90
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                                              PopX':
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pNIA.07':
           v43.12o, #TP36.1i ;14
                                              PopX':
                                                      u16.6i
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pNIA.07':
           v76.18i
                    ;15
pNIA.07':
           u82.14i
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                                              PopZ':
                                                      u18.10o, #TP181.1i
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                                              PopZ':
                                                      u34.2i
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pNIA.08':
           #TP38.1i, v91.8o
                             ;14
                                              PopZ':
                                                      u16.5i
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pNIA.08':
           v62.3i
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pNIA.08':
           v31.3i
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                                              PortOutput': u01.18o ;28
                                              PortOutput': u19.1i, u65.11i
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           #TP40.1i, v92.8o
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                                              PortOutput': u83.190, J2.34
pNIA.09':
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                                              pPC16': #TP192.1i, u44.11o
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                                          Q.00:
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                                           rB.1:
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Q.07:
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                                                   u81.18i ;03
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                                           rB.2:
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                                                   v16.60 ;10
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R.00:
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R.00:
     u63.13i ;04
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                                                   u81.17i ;03
R.00:
      u63.7o, #TP3.1i
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                                           ReadCS.0:
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                                           ReadCS.0:
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rA.0:
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                                           ReadCS.1: u10.10i
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                                           ReadCS.1: ull.10i
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rA.1: u80.2i
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                                           ReadCS.1: u07.10i
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rA.1: v09.2i
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                                           ReadCS.1:
                                                     u08.10i
rA.1: v08.2i
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                                           ReadCS.1:
                                                      u12.10i
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rA.1:
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                                           ReadCS.1:
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                                           ReadCS.1: u09.10i ;25
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                                           ReadCS.2: u07.11i
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rA.3:
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                                           ReadCS.2:
                                                     u08.11i
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rA.3: u80.4i
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                                           ReadCS.2:
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rB.0:
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                                           RefillIntc2: u61.130, #TP18.1i ;07
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                                           RefReq':
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                                           RefReq': u88.3i ;27
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RefreshY': v57.13o ;11
RefreshY': u50.10i ;12
                                         stackP.1: v66.7o, u17.14i, v60.15i
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                                          stackP.1: u16.2i
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RefreshZ': u18.15o ;11
                                         stackP.2: v66.10o, u17.3i, v60.13i
RefreshZ': u50.9i ;12
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                                         stackP.2: u16.3i ;17
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                                         stackP.3: v66.15o, u17.5i, v60.11i
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                                         stackP.3: u16.4i ;17
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SDS': v01.29i ;30
                                         stackP_': u52.10o ;11
SDS': u85.11o ;32
                                         SUA.0: u91.2o
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SelectIB0':
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                                                v42.7i
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SelectIB0':
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                                          SUA.1: v41.6i
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                                          SUA.2:
                                                v42.5i
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                                          SUA.2: v69.5i
sh:
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                                          SUA.2:
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                                         SUA.2: v68.5i ;05
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                                          SUA.3: u91.150 ;05
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                                          SUA.3: v42.21i ;05
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                                          SUA.3: v69.21i ;05
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                                         SUA.3: v41.21i ;05
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                                          SUA.4: u89.2o
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                                         SUA.4:
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                                          SUA.4:
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                                         SUA.4: u20.41o ;40
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                                         SUA.5: u89.7o
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                                          SUA.5:
                                                v42.2i
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                                          SUA.5:
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                                          SUA.5:
                                                 v41.2i
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                                          SUA.5:
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                                         SUA.5: u20.43o ;40
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                                                      v62.16o, v45.6i
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SUA.6:
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                                             TCX.3:
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SUA.7:
       u89.15o ;05
                                             TCY.0: v45.11o, #TP61.1i, v94.7i
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SUA.7:
       v42.4i
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SUA.7:
       v69.4i
                 ;05
                                             TCY.1:
                                                     v45.90, #TP62.1i, v94.8i
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SUA.7:
       v41.4i
                 ;05
SUA.7:
       v68.4i
                 ;05
                                             TCY.2:
                                                      v45.7o, #TP63.1i, v94.13i
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SUA.7:
       J1.19 ;38
                                             TCY.3: #TP64.1i, v45.5o, v94.14i
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       u20.45o ;40
                                             TPC.00':
                                                         v74.11o, #TP45.1i ;15
Swc2': #TP75.1i, v63.11o, v02.4i ;16
                                             TPC.00':
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                                             TPC.00':
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        #TP74.1i, v63.9o, v02.3i
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Swc2:
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                                             TPC.01':
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                                             TPC.01':
                                                         u12.13i
                                                                 ; 25
Swc3': v91.13i, v91.12i
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                                             TPC.01':
                                                         u47.5i
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Swc3': v92.13i, v92.12i
Swc3': v93.13i, v93.12i
                                             TPC.02':
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                                                         v74.7o, #TP47.1i
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Swc3': v90.13i, v90.12i
                                             TPC.02':
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                                             TPC.03':
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Swc3:
       v92.9i
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                                             TPC.03':
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Swc3:
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                                             TPC.03':
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Swc3:
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Swc3:
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                                             TPC.04':
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                                             TPC.04':
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                                             TPC.05':
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SwTAddr:
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                                             TPC.05':
                                                         u82.5i
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SwTAddr:
           v62.1i
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                                             TPC.06':
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           E96
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TC.0:
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                                             TPC.07':
                                                         v75.5o, #TP52.1i
TC.0:
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                                             TPC.07':
                                                         u11.12i
       v94.6o
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                                             TPC.07':
                                                         u82.13i
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TC.1:
       v92.10i
                ;14
TC.1:
       v94.9o
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                                             TPC.08':
                                                         v44.11o, #TP53.1i ;15
                                             TPC.08':
                                                         u08.12i
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TC.2:
       v90.10i
                 ;14
                                             TPC.08':
                                                         v31.4i
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TC.2:
        v94.12o
                 ;15
                                             TPC.09':
                                                         v44.9o, #TP54.1i
                                                                           ;15
TC.3:
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                                             TPC.09':
                                                         u12.12i
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TC.3:
        v94.15o
                                             TPC.09':
                                                         v31.5i
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TCWaitc1': v94.19o ;18
                                             TPC.10':
                                                         v44.7o, #TP55.1i
                                                                           ;15
TCWaitc1': u31.12i ;18
                                                         u09.12i
                                             TPC.10':
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                                             TPC.10':
                                                         v31.12i
                                                                 ;26
TCX.0: v62.12o, v45.12i ;15
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TPC.11':
           v44.5o, #TP56.1i
                                               VCC:
                                                       #C147.2i, #C141.2i, #C148.2i
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TPC.11':
           u54.12i
                                               VCC:
                                                        #C150.2i, #C152.2i, #C151.2i
                    ; 25
                                                        #C137.2i, #C136.2i, #C135.2i
TPC.11':
           v31.13i
                     ;26
                                               VCC:
                                                        #C138.2i, #C139.2i, #C140.2i
                                               VCC:
TTLHigh-a: u68.1i
                     ;10
                                               VCC:
                                                       #C49.2i, #C125.2i, #C126.2i
TTLHigh-a: u99.14i, u99.11i
                                               VCC:
                                                       u21.14i ;40
                              ;10
TTLHigh-a: u99.6i, u99.3i
                                               VCC:
                                                       u21.58o ;40
TTLHigh-a: u48.6i
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                                               VCC:
                                                       u21.37o ;40
TTLHigh-a: u88.5i
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                                               VCC:
                                                       u20.37o
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TTLHigh-a: v95.11i, v95.3i
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                                               VCC:
                                                       u20.580
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                                               VCC:
                                                       u20.14i
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TTLHigh-b: u88.6i
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                                               VCC:
                                                       #C64.2i, #C1.2i, #C62.2i
TTLHigh-b: v01.11i
                                               VCC:
                                                        #C60.2i, #C111.2i, #C36.2i
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                                                       #C33.2i, #C35.2i, #C34.2i
                                               VCC:
                                                       #C149.2i, #C21.2i, #C17.2i
TTLHigh-c: u88.7i
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                                               VCC:
                                                        #C48.2i, #C107.2i, #C74.2i
TTLHigh-c: u14.13i ;31
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TTLHigh-c: u14.4i, u14.1i ;32
                                               VCC:
                                                       #C113.2i, #C98.2i, #C153.2i
                                               VCC:
                                                       #C43.2i, #C80.2i, #C79.2i
        v08.10i, u80.10i, u81.10i
                                                       #C96.2i, #C106.2i, #C94.2i
VCC:
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                                               VCC:
        v09.10i
                                                       #C87.2i, #C88.2i, #C61.2i
VCC:
                                               VCC:
        u88.150, u88.140, u88.130
                                                       #C65.2i, #C47.2i, #C145.2i
VCC:
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                                               VCC:
VCC:
        u88.12o, u88.11o, u88.10o
                                               VCC:
                                                        #C133.2i, #C129.2i, #C130.2i
VCC:
        u88.90, u88.160
                                               VCC:
                                                       #C127.2i, #C134.2i, #C122.2i
VCC:
        #R2.1o
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                                               VCC:
                                                       #C110.2i, #C120.2i, #C121.2i
        #R1.10
                                               VCC:
                                                       #C112.2i, #C124.2i, #C131.2i
VCC:
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        u01.20o
                                                       #C108.2i, #C128.2i, #C109.2i
VCC:
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        v01.40i
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VCC:
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                                                       #C11.1o, #C12.1o, f02.1i
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        #C90.2i, #C77.2i, #C63.2i
VCC:
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VCC:
                                               Wait:
        #C13.2i, #C146.2i, #C132.2i
VCC:
                                               Wait:
                                                       v63.5i
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VCC:
        #C144.2i, #C143.2i, #C142.2i
                                               Wait:
                                                       v97.6i, u35.4i, v20.8o, E17
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VCC:
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                                               Wait:
                                                       v86.15i ;28
VCC:
        #C31.2i, #C6.2i, #C8.2i
VCC:
        #C32.2i, #C29.2i, #C10.2i
                                               Waitc1':
                                                           v02.17i, u70.8o, v20.11i
                                                                                       ;18
        #C16.2i, #C18.2i, #C19.2i
VCC:
        #C20.2i, #C50.2i, #C9.2i
VCC:
                                               Waitc2':
                                                           v02.18i, v02.16o, v20.10i
                                                                                       ;18
        #C119.2i, #C118.2i, #C117.2i
VCC:
        #C116.2i, #C115.2i, #C114.2i
                                               Waitc3':
                                                          v94.18i, v02.19o, v20.9i
VCC:
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VCC:
        #C53.2i, #C52.2i, #C44.2i
        #C46.2i, #C75.2i, #C73.2i
                                                          u81.15i, u80.15i
VCC:
                                               WaitClk:
                                                                              ;03
        #C72.2i, #C89.2i, #C3.2i
                                               WaitClk:
                                                           v08.15i, v09.15i
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VCC:
        #C68.2i, #C67.2i, #C66.2i
                                                           v66.9i
VCC:
                                               WaitClk:
                                                                    ;06
VCC:
        #C86.2i, #C85.2i, #C84.2i
                                               WaitClk:
                                                           v21.8o
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        #C83.2i, #C82.2i, #C81.2i
                                               WaitClk:
                                                           v19.2i
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VCC:
VCC:
        #C104.2i, #C103.2i, #C102.2i
                                               WaitClk:
                                                           u64.11i
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        #C101.2i, #C100.2i, #C99.2i
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VCC:
                                                           v33.11i, u85.9i
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                                               WaitPin':
VCC:
        #C59.2i, #C58.2i, #C57.2i
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VCC:
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        #C123.2i, #C45.2i, #C95.2i
VCC:
                                               WrIBFront: v65.11i
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        #C76.2i, #C97.2i, #C91.2i
VCC:
                                               WrIBFront: v04.11o
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        #C92.2i, #C105.2i, #C78.2i
VCC:
VCC:
        #C27.2i, #C26.2i, #C25.2i
                                               WriteIB:
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VCC:
                                               WriteIB:
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x.04:
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                                            X.04:
                                                    v88.14o
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                                            X.04:
WriteLink':
             v04.6o
                                                    v23.14i
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                                            X.04:
                                                    v36.30
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WriteRH': v48.3i, v47.3i ;06
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WriteRH': v04.8o
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                                            X.05:
                                                    E143, u80.23i
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WriteSU': v42.20i ;05
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                                                    v84.5o
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                                            X.05:
WriteSU': v69.20i
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                                                    v37.14i
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WriteSU': v41.20i
                                            X.05:
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                                                    v61.5o
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WriteSU': v68.20i ;05
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                                                    v82.14o ;08
WriteSU': v04.3o
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                                                    v06.7i
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WriteTC': v45.3i
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                                                    E44, u80.24i
WriteTC': v05.8o
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                                            X.06:
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                                                    v84.7o
                                            X.06:
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WriteTPC': v75.3i, v74.3i, v44.3i ;15
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WriteTPC': v22.8o
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                                                    v61.7o
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                                            X.06:
                                                    v81.14o
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                                            X.06:
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                                                    v61.9o
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        v39.3o
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                                            X.07:
                                                    v80.14o
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                                                    v36.9o
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       E141, u81.23i ;03
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X.01: v37.4i
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                                                    v78.3i
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x.01:
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                                            x.08:
                                                    v88.12o ;08
X.01:
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                                                    v59.4o
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x.01:
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                                                    v46.4o
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                                            x.08:
                                                    v23.13i
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x.02:
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                                                    v35.18o
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X.02:
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                                            x.08:
                                                    v03.18o
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                                            X.08:
X.02:
                 ;08
       v39.7o
                                                    v24.2i
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X.02:
       v81.15o
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X.02:
                                            X.09:
                                                    E145, v08.23i ;03
       v36.14o
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x.02:
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                                            X.09:
                                                    v83.16o
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                                            x.09:
                                                    v48.10i
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x.03:
       E142, u81.25i
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                                            X.09:
                                                    v39.16o
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x.03:
       v84.12o ;05
                                            X.09:
                                                    v78.4i
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x.03:
        v37.8i
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                                            X.09:
                                                    v82.12o ;08
                                                    v59.7o
x.03:
        v39.9o
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x.03:
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                                            X.09:
                                                    v46.7o
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x.03:
                                            X.09:
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x.10:
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                                             X.14:
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x.10:
        v39.14o
                                             X.14:
                                                      v47.6i
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                                                               ;06
x.10:
        v48.6i
                 ;06
                                             X.14:
                                                      v78.17i
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x.10:
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                                             X.14:
                                                      v81.11o
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                                                      v64.9o
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x.10:
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x.10:
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                                             X.14:
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                                                      v34.16o ;30
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                                             X.15:
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                                             X.15:
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                                                      v47.4i
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x.11:
        v39.12o
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                                             X.15:
                                                      v78.18i
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                                                      v80.11o
x.11:
        v48.4i
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                                             X.15:
                                                               ;08
x.11:
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                 ;07
                                             X.15:
                                                      v64.12o
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                                             X.15:
x.11:
        v80.12o
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                                                      v85.12o
                                                               ;09
x.11:
        v59.12o
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                                             X.15:
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x.11:
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x.11:
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                                             X.15:
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                                              XBus_IB':
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X.12:
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                                              XBus_IB':
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x.12:
        v60.3o, v61.18o
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x.12:
       v47.12i ;06
                                              XBus_SU':
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x.12:
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                                              XBus_SU':
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        v88.11o ;08
x.12:
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                                              XBus_SU:
x.12:
        v85.18o ;09
x.12:
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                                              XByte': u53.8o, u46.10i
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x.12:
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x.12:
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                                             Xhigh_0: u46.8o ;12
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                                             Y.00:
x.13:
        v83.5o
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x.13:
        v60.50, v61.160
                                             Y.00:
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x.13:
        v47.10i
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x.13:
        v78.14i
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                                             Y.01:
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x.13:
        v82.11o
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                                             Y.01:
                                                      v42.13i
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                                              Y.01:
                                                      v82.4i
x.13:
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        v35.50
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x.13:
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                                                      v81.4i
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|-------------------------|---|--------------------|-----|---|--|---------------------------------|--------------|------|
| Y.04: Y.04: | u80.390, v69.15i v88.1i v88.5i | ;05 ;08 ;08 | ;03 | Y.12: | v56.13i v40.13i | ;26 ;30 ;36 | 0.2 | |
| | u83.13i u80.38o, | | ;03 | Y.13: Y.13: | v58.5i | ;05 ;05 | 03 | |
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| Y.07: Y.07: Y.07: | u80.360, v69.9i v80.1i v80.5i u83.18i | ;05 ;08 ;08 | ;03 | Y.14: Y.14: Y.14: Y.14: | v81.3i v81.7i v23.3i v19.4i | ;06 ;08 ;08 ;13 ;26 | | |
| Y.08: | v08.390, v41.15i v88.2i | ;05 ;08 | ;03 | Y.14: Y.14: Y.15: | v56.17i v40.17i v09.36o, | | 03 | |
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| Y.09: Y.09: Y.09: | v56.4i | ;05 ;08 ;08 | ;03 | Y.15: Y.15: | v80.7i v49.3i v19.3i v56.18i v40.18i | ;08 ;13 ;26 ;30 ;36 | | |
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| XEROX | PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS | DWG | - DWG NO. | | wg NO. 156P12560 | | SHEET |
|-------|---|------------|-----------|----|------------------|--|-------|
| | TITLE SCHEMATIC, CPE-FP | SIZE A4 | SHEET | 74 | OF | | REV. |

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| XEROX | PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS | DWG | DWG NO. 156P12560 | | 12560 | SHEET |
|-------|---|------------|-------------------|----|-------|-------|
| | TITLE SCHEMATIC, CPE-FP | SIZE A4 | SHEET | 75 | OF | REV. |