


```

EEEEEEEEEE RRRRRRRR FFFFFFFFFF IIIIII NN NN IIIIII CCCCCCCC 000000 MM MM
EEEEEEEEEE RRRRRRRR FFFFFFFFFF IIIIII NN NN IIIIII CCCCCCCC 000000 MM MM
EE RR RR FF II NN NN II CC C 00 00 MMMM MMMM
EE RR RR FF II NN NN II CC C 00 00 MMMM MMMM
EE RR RR FF II NN NN II CC C 00 00 MM MM
EEEEEEEE RRRRRRRR FFFFFFFF IIIIII NN NN IIIIII CC C 00 00 MM MM
EEEEEEEE RRRRRRRR FFFFFFFF IIIIII NN NN IIIIII CC C 00 00 MM MM
EE RR RR FF II NN NN IIIIII NN NN II CC C 00 00 MM MM
EE RR RR FF II NN NN IIIIII NN NN II CC C 00 00 MM MM
EE RR RR FF II NN NN IIIIII NN NN II CC C 00 00 MM MM
EEEEEEEEEE RR RR FF IIIIII NN NN IIIIII CCCCCCCC 000000 MM MM
EEEEEEEEEE RR RR FF IIIIII NN NN IIIIII CCCCCCCC 000000 MM MM

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LL IIIIII SSSSSSSS
LL IIIIII SSSSSSSS
LL II SS
LL II SS
LL II SS
LL II SS
LL II SSSSSS
LL II SSSSSS
LL II SS
LL II SS
LL II SS
LLLLLLLLLL IIIIII SSSSSSSS
LLLLLLLLLL IIIIII SSSSSSSS

```

```
0001 Subroutine INIT_COMMONS
0002 C
0003 C Version: 'V04-000'
0004 C
0005 C*****
0006 C*
0007 C* COPYRIGHT (c) 1978, 1980, 1982, 1984 BY *
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0021 C*
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0024 C*
0025 C*
0026 C*****
0027 C
0028 C++
0029 C
0030 C AUTHOR: CREATION DATE: 6-Sep-1983
0031 C
0032 C Functional Description:
0033 C
0034 C This routine initializes the data commons used by the device
0035 C dependent fortran routines.
0036 C
0037 C Modified By:
0038 C
0039 C V03-002 SAR0276 Sharon A. Reynolds 20-Jun-1984
0040 C Added qio function code text for TMSCP support.
0041 C
0042 C
0043 C**
0044 C--
0045 C
0046 C
0047 C
0048 C Include files
0049 C
0050 C Include 'SRC$:QIOCOMMON.FOR /nolist'
0314 C Include 'SRC$:MODES.FOR /nolist'
0352 C Include 'SRC$:OPCODES.FOR /nolist'
0390 C
0391 C
0392 C
0393 C Initialize the QIOCOMMON. This common contains all of the
0394 C QIO codes.
```

ER
Sy
CO
IN
PS
--
\$E
Ph
--
In
Co
Pa
Sy
Pa
Sy
Ps
Cr
As
Th
35
Th
37
0
Ma
--
-\$
0
Th
MA

```

0395      C
0396      io$_nop          = 'NO OPERATION*'
0397      io$_unload       = 'UNLOAD*'
0398      io$_loadmcode    = 'LOAD MICRO-CODE*'
0399      io$_seek         = 'SEEK*'
0400      io$_spacefile    = 'SPACE FILE(S)*'
0401      io$_startmproc   = 'START MICRO-PROCESSOR*'
0402      io$_recal        = 'RECALIBRATE*'
0403      io$_stop         = 'STOP DEVICE*'
0404      io$_drvclr       = 'DRIVE CLEAR*'
0405      io$_initialize   = 'INITIALIZE*'
0406
0407      io$_release       = 'RELEASE PORT*'
0408      io$_setclockp     = 'SET CLOCK (PHYSICAL)*'
0409      io$_offset        = 'OFFSET HEADS*'
0410      io$_erasetape    = 'ERASE TAPE*'
0411      io$_startdatap   = 'START DATA (PHYSICAL)*'
0412      io$_retcenter    = 'RETURN TO CENTRE LINE*'
0413      io$_qstop        = 'QUEUE STOP*'
0414      io$_packack      = 'PACK ACKNOWLEDGE*'
0415      io$_search       = 'SEARCH FOR SECTOR*'
0416      io$_spacercord   = 'SPACE RECORD(S)*'
0417
0418      io$_writecheck    = 'WRITE CHECK*'
0419      io$_writepblk     = 'WRITE PHYSICAL BLOCK*'
0420      io$_readpblk      = 'READ PHYSICAL BLOCK*'
0421      io$_writehead     = 'WRITE HEADER AND DATA*'
0422      io$_readhead     = 'READ HEADER AND DATA*'
0423      io$_writetrackd   = 'WRITE TRACK DESCRIPTOR*'
0424      io$_readtrackd   = 'READ TRACK DESCRIPTOR*'
0425      io$_rereadn      = 'RE-READ NEXT*'
0426      io$_rereadp     = 'RE-READ PREVIOUS*'
0427      io$_writeret     = 'WRITE PHYSICAL BLOCK RETRY*'
0428
0429      io$_writecheckh   = 'WRITE CHECK HEADER AND DATA*'
0430      io$_readpreset    = 'READ IN PRESET*'
0431      io$_startspndl   = 'START SPINDLE*'
0432      io$_setchar      = 'SET CHARACTERISTICS*'
0433      io$_sensechar    = 'SENSE CHARACTERISTICS*'
0434      io$_writemark     = 'WRITE TAPE MARK*'
0435      io$_wrttmkr      = 'WRITE TAPE MARK RETRY*'
0436      io$_diagnose     = 'DIAGNOSE*'
0437      io$_format       = 'SET MEDIA DENSITY, REFORMAT DISK*'
0438      io$_clean        = 'CLEAN TAPE*'
0439
0440      io$_writelblk     = 'WRITE LOGICAL BLOCK*'
0441      io$_readlblk     = 'READ LOGICAL BLOCK*'
0442      io$_rewindoff    = 'REWIND, GO OFF-LINE*'
0443      io$_setmode      = 'SET MODE*'
0444      io$_rewind       = 'REWIND*'
0445      io$_skipfile     = 'SKIP FILE(S)*'
0446      io$_skiprecord   = 'SKIP RECORD(S)*'
0447      io$_sensemode    = 'SENSE MODE*'
0448      io$_writeeof     = 'WRITE END-OF-FILE*'
0449      io$_writevblk    = 'WRITE VIRTUAL BLOCK*'
0450
0451      io$_readvblk     = 'READ VIRTUAL BLOCK*'

```

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0452 io$_access      = 'ACCESS FILE/DIRECTORY ENTRY*'
0453 io$_create     = 'CREATE FILE/DIRECTORY ENTRY*'
0454 io$_deaccess  = 'DEACCESS FILE*'
0455 io$_delete    = 'DELETE FILE/DIRECTORY ENTRY*'
0456 io$_modify    = 'MODIFY FILE ATTRIBUTES*'
0457 io$_setclock  = 'SET CLOCK*'
0458 io$_acpcontrol = 'ACP CONTROL FUNCTION*'
0459 io$_startdata = 'START DATA*'
0460 io$_mount      = 'MOUNT VOLUME*'
0461
0462 io$_rdstats    = 'READ STATISTICS*'
0463 io$_writecsr  = 'WRITE CONTROL AND STATUS REGISTER*'
0464 io$_readcsr   = 'READ CONTROL AND STATUS REGISTER*'
0465 io$_abort     = 'ABORT*'
0466 io$_writewthbuf = 'WRITE WITH BUFFER*'
0467 io$_readwthbuf = 'READ WITH BUFFER*'
0468 io$_writebufncrc = 'WRITE BUFFER WITH NO CRC*'
0469 io$_readwthxbuf = 'READ WITH TRANSPARENT BUFFER*'
0470 io$_available = 'AVAILABLE, NO SPIN DOWN*'
0471 io$_dse      = 'DATA SECURITY ERASE*'
0472
0473 qio_string    = 'QIO FUNCTION CODE*'
0474
0475
0476 C
0477 C      Initialize the MODES common. It contains the cpu modes.
0478 C
0479 modes(0) = 'KERNEL*'
0480 modes(1) = 'EXECUTIVE*'
0481 modes(2) = 'SUPERVISOR*'
0482 modes(3) = 'USER*'
0483 modes(4) = 'INTERRUPT*'
0484
0485
0486 C
0487 C      Initialize the OPCODES common. It contains the operation
0488 C      codes/text that apply to the VAX instruction set.
0489 C
0490 opcodes('0'x) = 'HALT*'
0491 opcodes('1'x) = 'NOP*'
0492 opcodes('2'x) = 'REI*'
0493 opcodes('3'x) = 'BPT*'
0494 opcodes('4'x) = 'RET*'
0495 opcodes('5'x) = 'RSB*'
0496 opcodes('6'x) = 'LDPCTX*'
0497 opcodes('7'x) = 'SVPCTX*'
0498 opcodes('8'x) = 'CVTIPS*'
0499 opcodes('9'x) = 'CVTSP*'
0500 opcodes('A'x) = 'INDEX*'
0501 opcodes('B'x) = 'CRC*'
0502 opcodes('C'x) = 'PROBER*'
0503 opcodes('D'x) = 'PROBEW*'
0504 opcodes('E'x) = 'INSQUE*'
0505 opcodes('F'x) = 'REMQUE*'
0506
0507 opcodes('10'x) = 'BSBB*'
0508 opcodes('11'x) = 'BRB*'

```

```

0509 opcodes('12'x) = 'BNEQ, BNEQU*'
0510 opcodes('13'x) = 'BEQL, BEQLU*'
0511 opcodes('14'x) = 'BGTR*'
0512 opcodes('15'x) = 'BLEQ*'
0513 opcodes('16'x) = 'JSB*'
0514 opcodes('17'x) = 'JMP*'
0515 opcodes('18'x) = 'BGEQ*'
0516 opcodes('19'x) = 'BLSS*'
0517 opcodes('1A'x) = 'BGTRU*'
0518 opcodes('1B'x) = 'BLEGU*'
0519 opcodes('1C'x) = 'BVC*'
0520 opcodes('1D'x) = 'BVS*'
0521 opcodes('1E'x) = 'BGEQU, BCC*'
0522 opcodes('1F'x) = 'BLSSU, BCS*'
0523
0524 opcodes('20'x) = 'ADDP4*'
0525 opcodes('21'x) = 'ADDP6*'
0526 opcodes('22'x) = 'SUBP4*'
0527 opcodes('23'x) = 'SUBP6*'
0528 opcodes('24'x) = 'CVTPT*'
0529 opcodes('25'x) = 'MULP*'
0530 opcodes('26'x) = 'CVTTP*'
0531 opcodes('27'x) = 'DIVP*'
0532 opcodes('28'x) = 'MOVC3*'
0533 opcodes('29'x) = 'CMPC3*'
0534 opcodes('2A'x) = 'SCANC*'
0535 opcodes('2B'x) = 'SPANC*'
0536 opcodes('2C'x) = 'MOVC5*'
0537 opcodes('2D'x) = 'CMPC5*'
0538 opcodes('2E'x) = 'MOVTC*'
0539 opcodes('2F'x) = 'MOVTUC*'
0540
0541 opcodes('30'x) = 'BSBW*'
0542 opcodes('31'x) = 'BRW*'
0543 opcodes('32'x) = 'CVTWL*'
0544 opcodes('33'x) = 'CVTWB*'
0545 opcodes('34'x) = 'MOVP*'
0546 opcodes('35'x) = 'CMPP3*'
0547 opcodes('36'x) = 'CVTPL*'
0548 opcodes('37'x) = 'CMPP4*'
0549 opcodes('38'x) = 'EDITPC*'
0550 opcodes('39'x) = 'MATCHC*'
0551 opcodes('3A'x) = 'LOCC*'
0552 opcodes('3B'x) = 'SKPC*'
0553 opcodes('3C'x) = 'MOVZWL*'
0554 opcodes('3D'x) = 'ACBW*'
0555 opcodes('3E'x) = 'MOVAW*'
0556 opcodes('3F'x) = 'PUSHAW*'
0557
0558 opcodes('40'x) = 'ADDF2*'
0559 opcodes('41'x) = 'ADDF3*'
0560 opcodes('42'x) = 'SUBF2*'
0561 opcodes('43'x) = 'SUBF3*'
0562 opcodes('44'x) = 'MULF2*'
0563 opcodes('45'x) = 'MULF3*'
0564 opcodes('46'x) = 'DIVF2*'
0565 opcodes('47'x) = 'DIVF3*'

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```
0566 opcodes('48'x) = 'CVTFB*'
0567 opcodes('49'x) = 'CVTFW*'
0568 opcodes('4A'x) = 'CVTFL*'
0569 opcodes('4B'x) = 'CVTRFL*'
0570 opcodes('4C'x) = 'CVTBF*'
0571 opcodes('4D'x) = 'CVTWF*'
0572 opcodes('4E'x) = 'CVTLF*'
0573 opcodes('4F'x) = 'ACBF*'
0574
0575 opcodes('50'x) = 'MOVFB*'
0576 opcodes('51'x) = 'CMPFB*'
0577 opcodes('52'x) = 'MNEGF*'
0578 opcodes('53'x) = 'TSTF*'
0579 opcodes('54'x) = 'EMODF*'
0580 opcodes('55'x) = 'CVTFD*'
0581 opcodes('56'x) = 'RESERVED*'
0582 opcodes('57'x) = 'ADAWI*'
0583 opcodes('58'x) = 'RESERVED*'
0584 opcodes('59'x) = 'RESERVED*'
0585 opcodes('5A'x) = 'RESERVED*'
0586 opcodes('5B'x) = 'RESERVED*'
0587 opcodes('5C'x) = 'INSQHI*'
0588 opcodes('5D'x) = 'INSQTI*'
0589 opcodes('5E'x) = 'REMQHI*'
0590 opcodes('5F'x) = 'REMQTI*'
0591
0592 opcodes('60'x) = 'ADDD2*'
0593 opcodes('61'x) = 'ADDD3*'
0594 opcodes('62'x) = 'SUBD2*'
0595 opcodes('63'x) = 'SUBD3*'
0596 opcodes('64'x) = 'MULD2*'
0597 opcodes('65'x) = 'MULD3*'
0598 opcodes('66'x) = 'DIVD2*'
0599 opcodes('67'x) = 'DIVD3*'
0600 opcodes('68'x) = 'CVTDB*'
0601 opcodes('69'x) = 'CVTDW*'
0602 opcodes('6A'x) = 'CVTDL*'
0603 opcodes('6B'x) = 'CVTRDL*'
0604 opcodes('6C'x) = 'CVTBD*'
0605 opcodes('6D'x) = 'CVTWD*'
0606 opcodes('6E'x) = 'CVTLD*'
0607 opcodes('6F'x) = 'ACBD*'
0608
0609 opcodes('70'x) = 'MOVDB*'
0610 opcodes('71'x) = 'CMPDB*'
0611 opcodes('72'x) = 'MNEGD*'
0612 opcodes('73'x) = 'TSTD*'
0613 opcodes('74'x) = 'EMODD*'
0614 opcodes('75'x) = 'POLYD*'
0615 opcodes('76'x) = 'CVTDF*'
0616 opcodes('77'x) = 'RESERVED*'
0617 opcodes('78'x) = 'ASHL*'
0618 opcodes('79'x) = 'ASHQ*'
0619 opcodes('7A'x) = 'EMUL*'
0620 opcodes('7B'x) = 'EDIV*'
0621 opcodes('7C'x) = 'CLRQ, CLRQ*'
0622 opcodes('7D'x) = 'MOVQ*
```

```
0623 opcodes('7E'x) = 'MOVAQ, MOVAD*'
0624 opcodes('7F'x) = 'PUSHAQ, PUSHAD*'
0625
0626 opcodes('80'x) = 'ADDB2*'
0627 opcodes('81'x) = 'ADDB3*'
0628 opcodes('82'x) = 'SUBB2*'
0629 opcodes('83'x) = 'SUBB3*'
0630 opcodes('84'x) = 'MULB2*'
0631 opcodes('85'x) = 'MULB3*'
0632 opcodes('86'x) = 'DIVB2*'
0633 opcodes('87'x) = 'DIVB3*'
0634 opcodes('88'x) = 'BISB2*'
0635 opcodes('89'x) = 'BISB3*'
0636 opcodes('8A'x) = 'BICB2*'
0637 opcodes('8B'x) = 'BICB3*'
0638 opcodes('8C'x) = 'XORB2*'
0639 opcodes('8D'x) = 'XORB3*'
0640 opcodes('8E'x) = 'MNEGB*'
0641 opcodes('8F'x) = 'CASEB*'
0642
0643 opcodes('90'x) = 'MOVB*'
0644 opcodes('91'x) = 'CMPB*'
0645 opcodes('92'x) = 'MCOMB*'
0646 opcodes('93'x) = 'BITB*'
0647 opcodes('94'x) = 'CLRB*'
0648 opcodes('95'x) = 'TSTB*'
0649 opcodes('96'x) = 'INCB*'
0650 opcodes('97'x) = 'DECB*'
0651 opcodes('98'x) = 'CVTBL*'
0652 opcodes('99'x) = 'CVTBW*'
0653 opcodes('9A'x) = 'MOVZBL*'
0654 opcodes('9B'x) = 'MOVZBW*'
0655 opcodes('9C'x) = 'ROTL*'
0656 opcodes('9D'x) = 'ACBB*'
0657 opcodes('9E'x) = 'MOVAB*'
0658 opcodes('9F'x) = 'PUSHAB*'
0659
0660 opcodes('A0'x) = 'ADDW2*'
0661 opcodes('A1'x) = 'ADDW3*'
0662 opcodes('A2'x) = 'SUBW2*'
0663 opcodes('A3'x) = 'SUBW3*'
0664 opcodes('A4'x) = 'MULW2*'
0665 opcodes('A5'x) = 'MULW3*'
0666 opcodes('A6'x) = 'DIVW2*'
0667 opcodes('A7'x) = 'DIVW3*'
0668 opcodes('A8'x) = 'BISW2*'
0669 opcodes('A9'x) = 'BISW3*'
0670 opcodes('AA'x) = 'BICW2*'
0671 opcodes('AB'x) = 'BICW3*'
0672 opcodes('AC'x) = 'XORW2*'
0673 opcodes('AD'x) = 'XORW3*'
0674 opcodes('AE'x) = 'MNEGW*'
0675 opcodes('AF'x) = 'CASEW*'
0676
0677 opcodes('B0'x) = 'MOVW*'
0678 opcodes('B1'x) = 'CMPW*'
0679 opcodes('B2'x) = 'MCOMW*'
```



```
0680 opcodes('B3'x) = 'BITW*'
0681 opcodes('B4'x) = 'CLRW*'
0682 opcodes('B5'x) = 'TSTW*'
0683 opcodes('B6'x) = 'INCW*'
0684 opcodes('B7'x) = 'DECW*'
0685 opcodes('B8'x) = 'BISPSW*'
0686 opcodes('B9'x) = 'BICPSW*'
0687 opcodes('BA'x) = 'POPR*'
0688 opcodes('BB'x) = 'PUSHR*'
0689 opcodes('BC'x) = 'CHMK*'
0690 opcodes('BD'x) = 'CHME*'
0691 opcodes('BE'x) = 'CHMS*'
0692 opcodes('BF'x) = 'CHMU*'
0693
0694 opcodes('C0'x) = 'ADDL2*'
0695 opcodes('C1'x) = 'ADDL3*'
0696 opcodes('C2'x) = 'SUBL2*'
0697 opcodes('C3'x) = 'SUBL3*'
0698 opcodes('C4'x) = 'MULL2*'
0699 opcodes('C5'x) = 'MULL3*'
0700 opcodes('C6'x) = 'DIVL2*'
0701 opcodes('C7'x) = 'DIVL3*'
0702 opcodes('C8'x) = 'BISL2*'
0703 opcodes('C9'x) = 'BISL3*'
0704 opcodes('CA'x) = 'BICL2*'
0705 opcodes('CB'x) = 'BICL3*'
0706 opcodes('CC'x) = 'XORL2*'
0707 opcodes('CD'x) = 'XORL3*'
0708 opcodes('CE'x) = 'MNEGL*'
0709 opcodes('CF'x) = 'CASEL*'
0710
0711 opcodes('D0'x) = 'MOVL*'
0712 opcodes('D1'x) = 'CMPL*'
0713 opcodes('D2'x) = 'MCOML*'
0714 opcodes('D3'x) = 'BITL*'
0715 opcodes('D4'x) = 'CLRL, CLRF*'
0716 opcodes('D5'x) = 'TSTL*'
0717 opcodes('D6'x) = 'INCL*'
0718 opcodes('D7'x) = 'DECL*'
0719 opcodes('D8'x) = 'ADWC*'
0720 opcodes('D9'x) = 'SBWC*'
0721 opcodes('DA'x) = 'MTPR*'
0722 opcodes('DB'x) = 'MFPR*'
0723 opcodes('DC'x) = 'MOVPSL*'
0724 opcodes('DD'x) = 'PUSHL*'
0725 opcodes('DE'x) = 'MOVAL, MOVAF*'
0726 opcodes('DF'x) = 'PUSHAL, PUSHAF*'
0727
0728 opcodes('E0'x) = 'BBS*'
0729 opcodes('E1'x) = 'BBC*'
0730 opcodes('E2'x) = 'BBSS*'
0731 opcodes('E3'x) = 'BBCS*'
0732 opcodes('E4'x) = 'BBSC*'
0733 opcodes('E5'x) = 'BBCC*'
0734 opcodes('E6'x) = 'BBSSI*'
0735 opcodes('E7'x) = 'BBCCI*'
0736 opcodes('E8'x) = 'BLBS*'
```

INIT_COMMONS

H 13
 '6-Sep-1984 00:02:54
 5-Sep-1984 13:55:38

VAX-11 FORTRAN V3.4-56 Page 8
 DISK\$VMSMASTER:[ERF.SRC]ERFINICOM.FOR;1

```

0737 opcodes('E9'x) = 'BLBC*'
0738 opcodes('EA'x) = 'FFS*'
0739 opcodes('EB'x) = 'FFC*'
0740 opcodes('EC'x) = 'CMPV*'
0741 opcodes('ED'x) = 'CMPZV*'
0742 opcodes('EE'x) = 'EXTV*'
0743 opcodes('EF'x) = 'EXTZV*'
0744
0745 opcodes('F0'x) = 'INSV*'
0746 opcodes('F1'x) = 'ACBL*'
0747 opcodes('F2'x) = 'AOBLSS*'
0748 opcodes('F3'x) = 'AOBLEQ*'
0749 opcodes('F4'x) = 'SOBGEQ*'
0750 opcodes('F5'x) = 'SOBGTR*'
0751 opcodes('F6'x) = 'CVTLB*'
0752 opcodes('F7'x) = 'CVTLW*'
0753 opcodes('F8'x) = 'ASHP*'
0754 opcodes('F9'x) = 'CVTLP*'
0755 opcodes('FA'x) = 'CALLG*'
0756 opcodes('FB'x) = 'CALLS*'
0757 opcodes('FC'x) = 'xFC*'
0758 opcodes('FD'x) = 'ESCD*'
0759 opcodes('FE'x) = 'ESCE*'
0760 opcodes('FF'x) = 'ESCF*'
0761
0762 Return
0763 End ! Module
    
```

PROGRAM SECTIONS

Name	Bytes	Attributes
0 \$CODE	3846	PIC CON REL LCL SHR EXE RD NOWRT LONG
1 \$PDATA	2801	PIC CON REL LCL SHR NOEXE RD NOWRT LONG
3 \$IOCOMMON	1247	PIC OVR REL GBL SHR NOEXE RD WRT LONG
4 \$MODE	55	PIC OVR REL GBL SHR NOEXE RD WRT LONG
5 \$OPCODE	3840	PIC OVR REL GBL SHR NOEXE RD WRT LONG
Total Space Allocated	11789	

ENTRY POINTS

Address	Type	Name
0-00000000		INIT_COMMONS

VARIABLES

Address	Type	Name	Address	Type	Name
3-00000442	CHAR	IOS_ABORT	3-00000340	CHAR	IOS_ACCESS
3-000003C2	CHAR	IOS_ACPCONTROL	3-00000483	CHAR	IOS_AVAILABLE
3-00000297	CHAR	IOS_CLEAN	3-00000369	CHAR	IOS_CREATE
3-00000385	CHAR	IOS_DEACCESS	3-00000393	CHAR	IOS_DELETE
3-0000026D	CHAR	IOS_DIAGNOSE	3-00000065	CHAR	IOS_DRVCLR
3-000004CB	CHAR	IOS_DSE	3-000000A9	CHAR	IOS_ERASETAPE
3-00000276	CHAR	IOS_FORMAT	3-00000071	CHAR	IOS_INITIALIZE
3-00000014	CHAR	IOS_LOADMCODE	3-000003A1	CHAR	IOS_MODIFY
3-000003E2	CHAR	IOS_MOUNT	3-00000000	CHAR	IOS_NOP
3-0000009D	CHAR	IOS_OFFSET	3-000000EB	CHAR	IOS_PACKACK
3-000000E0	CHAR	IOS_QSTOP	3-000003EF	CHAR	IOS_RDSTATS
3-00000421	CHAR	IOS_READCSR	3-00000169	CHAR	IOS_READHEAD
3-000002B6	CHAR	IOS_READLBLK	3-0000013F	CHAR	IOS_READPBLK
3-00000200	CHAR	IOS_READPRESET	3-00000195	CHAR	IOS_READTRACKD
3-0000033A	CHAR	IOS_READVBLK	3-0000045A	CHAR	IOS_READWTHBUF
3-00000484	CHAR	IOS_READWTHXBUF	3-0000004D	CHAR	IOS_RECAL
3-0000007C	CHAR	IOS_RELEASE	3-000001AB	CHAR	IOS_REREADN
3-000001B8	CHAR	IOS_REREADP	3-000000CA	CHAR	IOS_RETCENTER
3-000002E6	CHAR	IOS_REWIND	3-000002C9	CHAR	IOS_REWINDOFF
3-000000FC	CHAR	IOS_SEARCH	3-00000024	CHAR	IOS_SEEK
3-00000231	CHAR	IOS_SENSECHAR	3-00000309	CHAR	IOS_SENSEMODE
3-0000021D	CHAR	IOS_SETCHAR	3-000003B8	CHAR	IOS_SETCLOCK
3-00000088	CHAR	IOS_SETCLOCKP	3-000002DD	CHAR	IOS_SETMODE
3-000002ED	CHAR	IOS_SKIPFILE	3-000002FA	CHAR	IOS_SKIPRECORD
3-00000029	CHAR	IOS_SPACEFILE	3-0000010E	CHAR	IOS_SPACERECORD
3-000003D7	CHAR	IOS_STARTDATA	3-000000B4	CHAR	IOS_STARTDATAP
3-00000037	CHAR	IOS_STARTMPROC	3-0000020F	CHAR	IOS_STARTSPNDL
3-00000059	CHAR	IOS_STOP	3-0000000D	CHAR	IOS_UNLOAD
3-00000468	CHAR	IOS_WRITEBUFNCRC	3-0000011E	CHAR	IOS_WRITECHECK
3-000001E4	CHAR	IOS_WRITECHECKH	3-000003FF	CHAR	IOS_WRITECSR
3-00000153	CHAR	IOS_WRITEHEAD	3-000002A2	CHAR	IOS_WRITELBLK
3-00000247	CHAR	IOS_WRITEMARK	3-00000314	CHAR	IOS_WRITEOF
3-0000012A	CHAR	IOS_WRITEPBLK	3-000001C9	CHAR	IOS_WRITERET
3-0000017E	CHAR	IOS_WITETRACKD	3-00000326	CHAR	IOS_WRITEVBLK
3-00000448	CHAR	IOS_WRITEWTHBUF	3-00000257	CHAR	IOS_WRTTMKR
3-000004A1	CHAR	QIO_STRING			

ARRAYS

Address	Type	Name	Bytes	Dimensions
4-00000000	CHAR	MODES	55	(0:4)
5-00000000	CHAR	OPCODES	3840	(0:255)

.....

INIT_COMMONS

J 13
16-Sep-1984 00:02:54
5-Sep-1984 13:55:38

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DISK\$VMSMASTER:[ERF.SRC]ERFINICOM.FOR;1

COMMAND QUALIFIERS

FORTRAN /LIS=LIS\$:ERFINICOM/OBJ=OBJ\$:ERFINICOM MSRCS:ERFINICOM

/CHECK=(NOBOUNDS,OVERFLOW,NOUNDERFLOW)

/DEBUG=(NOSYMBOLS,TRACEBACK)

/STANDARD=(NOSYNTAX,NOSOURCE,FORM)

/SHOW=(NOPREPROCESSOR,NOINCLUDE,MAP)

/F77 /NOG_FLOATING /I4 /OPTIMIZE /WARNINGS /NOD_LINES /NOCROSS_REFERENCE /NOMACHINE_CODE /CONTINUATIONS=19

COMPILATION STATISTICS

Run Time:	9.86 seconds
Elapsed Time:	19.67 seconds
Page Faults:	273
Dynamic Memory:	269 pages

The image displays a grid of 144 small document thumbnails, arranged in 12 rows and 12 columns. Each thumbnail represents a different software component or manual page. The thumbnails are arranged in a grid, with some larger and more prominent than others. The following table lists the titles of the thumbnails that are clearly legible:

Row	Column	Thumbnail Title
1	10	ERFCOM LIS
1	11	ERFMSG LIS
2	10	ERF5VECT LIS
3	10	ERF2VECT LIS
3	11	ERFOUTPUT LIS
4	10	ERFCOMVEC LIS
5	10	ERFBRIVEC LIS
6	10	ERF3VECT LIS
6	11	ERFDISKVE LIS
7	11	ERFPARSER LIS
8	10	ERFBUSVEC LIS
8	11	ERFINIVEC LIS
9	10	ERF4VECT LIS
9	11	ERFINICOM LIS
10	10	ERF1VECT LIS