

J E S 2 J O B L O G

11.02.06 JOB 17 \$HASP373 READ02NC STARTED - INIT 1 - CLASS A - SYS HMVS
11.02.06 JOB 17 IEF403I READ02NC - STARTED - TIME=11.02.06
11.02.06 JOB 17 IEFACRT C0B /IKFCBL00/00:00:00.07/00:00:00.12/00004/READ02NC
11.02.06 JOB 17 IEFACRT LKED /IEWL /00:00:00.02/00:00:00.04/00000/READ02NC
11.02.06 JOB 17 IEF404I READ02NC - ENDED - TIME=11.02.06
11.02.06 JOB 17 \$HASP395 READ02NC ENDED

----- JES2 JOB STATISTICS -----

31 JUL 25 JOB EXECUTION DATE

10 CARDS READ

577 SYSOUT PRINT RECORDS

0 SYSOUT PUNCH RECORDS

0.00 MINUTES EXECUTION TIME

1 11.02.06 JUL 31,2025

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00001 IDENTIFICATION DIVISION.
00002 PROGRAM-ID. READ02N.
00003 DATE-WRITTEN. JULY, 2025.
00004 DATE-COMPILED. JUL 31,2025.
00005 REMARKS. SORT STUDENT ROSTER RECORDS BY DEPT/COURSE/SECTION,
00006 AT LEVEL CHANGE, LOOKUP TABLE DATA IN RRDS CLUSTER,
00007 PRODUCE ENROLLMENT AND CLASS ROSTER REPORTS.
00008
00009 ENVIRONMENT DIVISION.
00010 INPUT-OUTPUT SECTION.
00011 FILE-CONTROL.
00012
00013 SELECT STUDENT-ROSTER-FILE
00014 ASSIGN TO ROSTERI.
00015
00016 SELECT TABLES-FILE
00017 ASSIGN TO TABLEI
00018 ORGANIZATION IS RELATIVE
00019 ACCESS IS RANDOM
00020 RELATIVE KEY IS TABLEI-RELATIVE-KEY
00021 FILE STATUS IS TABLEI-STATUS.
00022
00023 SELECT REPORT-FILE-1
00024 ASSIGN TO S-REPORT1.
00025
00026 SELECT REPORT-FILE-2
00027 ASSIGN TO S-REPORT2.
00028
00029 SELECT SORT-WORK-FILE
00030 ASSIGN TO S-SORTWK.
00031
00032 DATA DIVISION.
00033 FILE SECTION.
00034
00035 FD STUDENT-ROSTER-FILE
00036 LABEL RECORDS STANDARD
00037 RECORD CONTAINS 48 CHARACTERS
00038 BLOCK CONTAINS 100 RECORDS
00039 DATA RECORD IS STUDENT-ROSTER-RECORD.
00040
00041 01 STUDENT-ROSTER-RECORD.
00042 02 SRR-DEPARTMENT PIC 9(02).
00043 02 SRR-COURSE PIC 9(03).
00044 02 SRR-SECTION PIC 9(01).
00045 02 SRR-STUDENT-NUMBER PIC 9(07).
00046 02 SRR-STUDENT-NAME PIC X(35).
00047
00048 FD TABLES-FILE
00049 RECORD CONTAINS 57 CHARACTERS
00050 DATA RECORD IS TABLE-RECORD.
00051
00052 01 TABLE-RECORD PIC X(57).
00053
00054 FD REPORT-FILE-1
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00055 LABEL RECORDS STANDARD
00056 REPORT IS ENROLLMENT-REPORT.
00057
00058 FD REPORT-FILE-2
00059 LABEL RECORDS STANDARD
00060 REPORT IS CLASS-ROLL-REPORT.
00061
00062 SD SORT-WORK-FILE
00063 DATA RECORD IS SORT-WORK-RECORD.
00064
00065 01 SORT-WORK-RECORD.
00066 02 SWR-DEPT-COURSE-SECT PIC 9(06).
00067 02 FILLER REDEFINES SWR-DEPT-COURSE-SECT.
00068 03 SWR-DEPARTMENT PIC 9(02).
00069 03 SWR-COURSE PIC 9(03).
00070 03 SWR-SECTION PIC 9(01).
00071 02 SWR-STUDENT-NUMBER PIC 9(07).
00072 02 SWR-STUDENT-NAME PIC X(35).
00073
00074 WORKING-STORAGE SECTION.
00075
00076 01 SORT-WORK-EOF-SW PIC X VALUE 'N'.
00077 88 SORT-WORK-NOT-EOF VALUE 'N'.
00078 88 SORT-WORK-EOF VALUE 'Y'.
00079
00080 01 TABLEI-RELATIVE-KEY PIC 9(06).
00081 01 TABLEI-STATUS PIC X(02).
00082
00083 01 Y2K-GETD-PARAMETERS.
00084 02 Y2K-GETDP-DATE-G PIC 9(8).
00085 02 Y2K-GETDP-DATE-J PIC 9(7).
00086 02 Y2K-GETDP-ANUM PIC S9(7).
00087 02 Y2K-GETDP-CLOCK PIC 9(8).
00088 02 FILLER REDEFINES Y2K-GETDP-CLOCK.
00089 03 Y2K-GETDP-CLOCK-HH PIC 9(2).
00090 03 Y2K-GETDP-CLOCK-MM PIC 9(2).
00091 03 Y2K-GETDP-CLOCK-SS PIC 9(2).
00092 03 Y2K-GETDP-CLOCK-T PIC 9(1).
00093 03 Y2K-GETDP-CLOCK-H PIC 9(1).
00094 02 Y2K-GETDP-CLOCK12 PIC X(11).
00095
00096 01 Y2K-DFMT-PARAMETERS.
00097 02 Y2K-DFMTP-DATEIN PIC X(8).
00098 02 Y2K-DFMTP-MAJOR PIC X(1).
00099 02 Y2K-DFMTP-MINOR PIC X(1).
00100 02 Y2K-DFMTP-RETURN-CODE PIC 9(1).
00101 02 Y2K-DFMTP-OUTPUT-SIZE PIC S9(2).
00102 02 Y2K-DFMTP-OUTPUT PIC X(29).
00103
00104 01 DEPARTMENT-TABLE-RECORD.
00105 02 DTR-KEY.
00106 03 DTR-DEPARTMENT PIC 9(02) VALUE 0.
00107 03 FILLER PIC 9(04).
00108 02 DTR-NAME PIC X(40).
00109
00110 01 COURSE-TABLE-RECORD.
00111 02 CTR-KEY.
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3	READ02N	11.02.06	JUL 31,2025
00112		03 CTR-DEPARTMENT	PIC 9(02) VALUE 0.
00113		03 CTR-COURSE	PIC 9(03) VALUE 0.
00114		03 FILLER	PIC 9(01).
00115	02	CTR-NAME	PIC X(50).
00116	02	CTR-HOURS	PIC 9(01).
00117			
00118	01	SECTION-TABLE-RECORD.	
00119	02	STR-KEY.	
00120		03 STR-DEPARTMENT	PIC 9(02) VALUE 0.
00121		03 STR-COURSE	PIC 9(03) VALUE 0.
00122		03 STR-SECTION	PIC 9(01) VALUE 0.
00123	02	STR-DESCRIPTION	PIC X(20).
00124	01	FILLER	REDEFINES SECTION-TABLE-RECORD.
00125	02	FILLER	PIC 9(05).
00126	02	STR-SECTION-BREAK.	
00127		03 STR-SB-SECTION	PIC 9(01).
00128		03 STR-SB-DESC	PIC X(20).
00129			
00130	01	COUNT-1	PIC 9(01) VALUE 1.
00131			
00132		REPORT SECTION.	
00133	RD	ENROLLMENT-REPORT	
00134		CONTROLS ARE DTR-DEPARTMENT, CTR-COURSE, STR-SECTION-BREAK	
00135		PAGE LIMIT IS 66 LINES	
00136		HEADING 2	
00137		FIRST DETAIL 5	
00138		LAST DETAIL 62.	
00139			
00140	01	ENROLLMENT-PAGE-HEAD TYPE PAGE HEADING.	
00141	02	LINE 2.	
00142		03 COLUMN 01	PIC X(10) SOURCE Y2K-DFMTP-OUTPUT.
00143		03 COLUMN 15	PIC X(03) VALUE '(N)'.
00144		03 COLUMN 30	PIC X(05) VALUE 'Royal'.
00145		03 COLUMN 36	PIC X(06) VALUE 'Valley'.
00146		03 COLUMN 43	PIC X(10) VALUE 'University'.
00147		03 COLUMN 73	PIC X(04) VALUE 'Page'.
00148		03 COLUMN 78	PIC ZZ9 SOURCE PAGE-COUNTER
00149			OF ENROLLMENT-REPORT.
00150	02	LINE 3.	
00151		03 COLUMN 01	PIC X(11) SOURCE Y2K-GETDP-CLOCK12.
00152		03 COLUMN 33	PIC X(17) VALUE 'Enrollment Report'.
00153			
00154	01	ENROLLMENT-DEPT-HEAD TYPE CONTROL HEADING DTR-DEPARTMENT.	
00155	02	LINE PLUS 1.	
00156		03 COLUMN 01	PIC X(11) VALUE 'Department:'.
00157		03 COLUMN 13	PIC Z9 SOURCE DTR-DEPARTMENT.
00158		03 COLUMN 16	PIC X(40) SOURCE DTR-NAME.
00159	02	LINE PLUS 1.	
00160			
00161	01	ENROLLMENT-COURSE-HEAD TYPE CONTROL HEADING CTR-COURSE.	
00162	02	LINE PLUS 1.	
00163		03 COLUMN 03	PIC X(07) VALUE 'Course:'.
00164		03 COLUMN 12	PIC ZZ9 SOURCE CTR-COURSE.
00165		03 COLUMN 16	PIC X(50) SOURCE CTR-NAME.
00166	02	LINE PLUS 1.	
00167			
00168	01	ENROLLMENT-SECTION-DETAIL TYPE IS DETAIL.	

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00169		02	LINE PLUS 1.	
00170		03	COLUMN 01 PIC 9(01) SOURCE COUNT-1.	
00171				
00172	01		ENROLLMENT-SECTION-FOOT TYPE CONTROL FOOTING	
00173			STR-SECTION-BREAK.	
00174		02	LINE PLUS 1.	
00175		03	COLUMN 05 PIC X(08) VALUE 'Section:'.	
00176		03	COLUMN 14 PIC 9(01) SOURCE STR-SB-SECTION.	
00177		03	COLUMN 16 PIC X(20) SOURCE STR-SB-DESC.	
00178		03	COLUMN 60 PIC ZZ9 SUM COUNT-1.	
00179		03	COLUMN 63 PIC X(01) VALUE '*'.	
00180		02	LINE PLUS 1.	
00181				
00182	01		ENROLLMENT-COURSE-FOOT TYPE CONTROL FOOTING CTR-COURSE.	
00183		02	LINE PLUS 1.	
00184		03	COLUMN 04 PIC X(17) VALUE 'Course Enrollment'.	
00185		03	COLUMN 57 PIC ZZ,ZZ9 SUM COUNT-1.	
00186		03	COLUMN 63 PIC X(02) VALUE '**'.	
00187		02	LINE PLUS 1.	
00188				
00189	01		ENROLLMENT-DEPT-FOOT TYPE CONTROL FOOTING DTR-DEPARTMENT.	
00190		02	LINE PLUS 1.	
00191		03	COLUMN 01 PIC X(21) VALUE 'Department Enrollment'.	
00192		03	COLUMN 54 PIC Z,ZZZ,ZZ9 SUM COUNT-1.	
00193		03	COLUMN 63 PIC X(03) VALUE '***'.	
00194		02	LINE PLUS 2.	
00195				
00196	RD		CLASS-ROLL-REPORT	
00197			CONTROLS ARE STR-KEY	
00198			PAGE LIMIT IS 66 LINES	
00199			HEADING 2	
00200			FIRST DETAIL 5	
00201			LAST DETAIL 58.	
00202				
00203	01		CLASS-ROLL-PAGE-HEAD TYPE PAGE HEADING.	
00204		02	LINE 2.	
00205		03	COLUMN 01 PIC X(10) SOURCE Y2K-DFMTP-OUTPUT.	
00206		03	COLUMN 15 PIC X(03) VALUE '(N)'.	
00207		03	COLUMN 30 PIC X(05) VALUE 'Royal'.	
00208		03	COLUMN 36 PIC X(06) VALUE 'Valley'.	
00209		03	COLUMN 43 PIC X(10) VALUE 'University'.	
00210		03	COLUMN 73 PIC X(04) VALUE 'Page'.	
00211		03	COLUMN 78 PIC ZZ9 SOURCE PAGE-COUNTER	
00212			OF CLASS-ROLL-REPORT.	
00213		02	LINE 3.	
00214		03	COLUMN 01 PIC X(11) SOURCE Y2K-GETDP-CLOCK12.	
00215		03	COLUMN 36 PIC X(10) VALUE 'Class Roll'.	
00216				
00217	01		CLASS-ROLL-SECT-HEAD TYPE CONTROL HEADING STR-KEY.	
00218		02	LINE PLUS 2.	
00219		03	COLUMN 01 PIC X(11) VALUE 'Department:'.	
00220		03	COLUMN 13 PIC Z9 SOURCE DTR-DEPARTMENT.	
00221		03	COLUMN 16 PIC X(40) SOURCE DTR-NAME.	
00222		02	LINE PLUS 2.	
00223		03	COLUMN 03 PIC X(07) VALUE 'Course:'.	
00224		03	COLUMN 12 PIC ZZ9 SOURCE CTR-COURSE.	
00225		03	COLUMN 16 PIC X(50) SOURCE CTR-NAME.	

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00226	02	LINE PLUS 2.	
00227	03	COLUMN 05 PIC X(08) VALUE 'Section:'.	
00228	03	COLUMN 14 PIC 9(01) SOURCE STR-SECTION.	
00229	03	COLUMN 16 PIC X(20) SOURCE STR-DESCRIPTION.	
00230	02	LINE PLUS 1.	
00231			
00232	01	CLASS-ROLL-DETAIL TYPE IS DETAIL.	
00233	02	LINE PLUS 1.	
00234	03	COLUMN 10 PIC 9(01) SOURCE COUNT-1.	
00235	03	COLUMN 10 PIC 9(07) SOURCE SWR-STUDENT-NUMBER.	
00236	03	COLUMN 26 PIC X(35) SOURCE SWR-STUDENT-NAME.	
00237			
00238	01	CLASS-ROLL-SECT-FOOT TYPE CONTROL FOOTING STR-KEY	
00239		NEXT GROUP NEXT PAGE.	
00240	02	LINE PLUS 2.	
00241	03	COLUMN 07 PIC X(28) VALUE	
00242		'Number of Students Enrolled:'.	
00243	03	COLUMN 40 PIC ZZ9 SUM COUNT-1.	
00244			
00245		PROCEDURE DIVISION.	
00246			
00247		0000-MAIN SECTION.	
00248			
00249		0000-HOUSEKEEPING.	
00250			
00251		CALL 'Y2KGETD' USING Y2K-GETD-PARAMETERS.	
00252		MOVE Y2K-GETDP-DATE-G TO Y2K-DFMTP-DATEIN.	
00253		MOVE '1' TO Y2K-DFMTP-MAJOR.	
00254		MOVE '3' TO Y2K-DFMTP-MINOR.	
00255		CALL 'Y2KDFMT' USING Y2K-DFMT-PARAMETERS.	
00256			
00257		0100-SORT-ENROLLMENT-FILE.	
00258			
00259		SORT SORT-WORK-FILE	
00260		ON ASCENDING KEY SWR-DEPARTMENT,	
00261		SWR-COURSE,	
00262		SWR-SECTION,	
00263		SWR-STUDENT-NAME	
00264		USING STUDENT-ROSTER-FILE	
00265		OUTPUT PROCEDURE IS 1000-LEVEL-1-ROUTINES.	
00266			
00267		GOBACK.	
00268			
00269		1000-LEVEL-1-ROUTINES SECTION.	
00270			
00271		1100-PROCESS-SORTED-ROSTER.	
00272			
00273		OPEN INPUT TABLES-FILE,	
00274		OUTPUT REPORT-FILE-1,	
00275		REPORT-FILE-2.	
00276		INITIATE ENROLLMENT-REPORT,	
00277		CLASS-ROLL-REPORT.	
00278			
00279		PERFORM 2100-RETURN-SORT-WORK-FILE	
00280		UNTIL SORT-WORK-EOF.	
00281			
00282		TERMINATE ENROLLMENT-REPORT,	

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00283          CLASS-ROLL-REPORT.
00284      CLOSE TABLES-FILE,
00285          REPORT-FILE-1,
00286          REPORT-FILE-2.
00287
00288      2000-LEVEL-2-ROUTINES SECTION.
00289
00290      2100-RETURN-SORT-WORK-FILE.
00291
00292          RETURN SORT-WORK-FILE
00293              AT END
00294                  MOVE 'Y' TO SORT-WORK-EOF-SW.
00295
00296          IF SORT-WORK-NOT-EOF
00297              PERFORM 3100-PRODUCE-REPORT-ITEMS.
00298
00299      3000-LEVEL-3-ROUTINES SECTION.
00300
00301      3100-PRODUCE-REPORT-ITEMS.
00302
00303          IF SWR-DEPARTMENT NOT = DTR-DEPARTMENT
00304              PERFORM 4100-RETRIEVE-DEPT-TABLE
00305              PERFORM 4200-RETRIEVE-COURSE-TABLE
00306              PERFORM 4300-RETRIEVE-SECT-TABLE
00307          ELSE
00308              IF SWR-COURSE NOT = CTR-COURSE
00309                  PERFORM 4200-RETRIEVE-COURSE-TABLE
00310                  PERFORM 4300-RETRIEVE-SECT-TABLE
00311              ELSE
00312                  IF SWR-SECTION NOT = STR-SECTION
00313                      PERFORM 4300-RETRIEVE-SECT-TABLE.
00314
00315          GENERATE CLASS-ROLL-DETAIL.
00316          GENERATE ENROLLMENT-REPORT.
00317
00318      4000-LEVEL-3-ROUTINES SECTION.
00319
00320      4100-RETRIEVE-DEPT-TABLE.
00321
00322          MOVE ZEROS TO DTR-KEY.
00323          MOVE SWR-DEPARTMENT TO DTR-DEPARTMENT.
00324          MOVE DTR-KEY TO TABLEI-RELATIVE-KEY.
00325          READ TABLES-FILE RECORD INTO DEPARTMENT-TABLE-RECORD
00326              INVALID KEY
00327                  MOVE '*** Not Found ***'
00328                      TO DTR-NAME.
00329
00330      4200-RETRIEVE-COURSE-TABLE.
00331
00332          MOVE ZEROS TO CTR-KEY.
00333          MOVE SWR-DEPARTMENT TO CTR-DEPARTMENT.
00334          MOVE SWR-COURSE TO CTR-COURSE.
00335          MOVE CTR-KEY TO TABLEI-RELATIVE-KEY
00336          READ TABLES-FILE RECORD INTO COURSE-TABLE-RECORD
00337              INVALID KEY
00338                  MOVE '*** Not Found ***'
00339                      TO CTR-NAME
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STATISTICS

SOURCE

RECORDS = 353

DATA DIVISION STATEMENTS = 82

PROCEDURE DIVISION STATEMENTS = 48

OPTIONS IN EFFECT

SIZE = 3145728 BUF = 765952 LINECNT = 57 SPACE1, FLAGW, SEQ, SOURCE

OPTIONS IN EFFECT

NODMAP, NOPMAP, NOCLIST, NOSUPMAP, NOXREF, NOSXREF, LOAD, NODECK, APOST, NOTRUNC, NOFLOW

OPTIONS IN EFFECT

NOTERM, NONUM, NOBATCH, NONAME, COMPILE=01, NOSTATE, NORESIDENT, NODYNAM, LIB, NOSYNTAX

OPTIONS IN EFFECT

NOOPTIMIZE, NOSYMDMP, NOTEST, VERB, ZWB, SYST, NOENDJOB, NOMIGR, NOLVL

OPTIONS IN EFFECT

NOLST , NOFDECK, NOCDECK, LCOL2, L120, DUMP , ADV , NOPRINT,

OPTIONS IN EFFECT

NOCOUNT, NOVBSUM, NOVBREF, LANGLVL(1)

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CARD ERROR MESSAGE

148	IKF5011I-W	AN INTERMEDIATE RESULT OR A SENDING FIELD MIGHT HAVE ITS HIGH ORDER DIGIT POSITION TRUNCATED.
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211	IKF5011I-W	AN INTERMEDIATE RESULT OR A SENDING FIELD MIGHT HAVE ITS HIGH ORDER DIGIT POSITION TRUNCATED.
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F64-LEVEL LINKAGE EDITOR OPTIONS SPECIFIED LIST,MAP
DEFAULT OPTION(S) USED - SIZE=(231424,55296)
IEW0000 NAME READ02N(R)

MODULE MAP

CONTROL SECTION				ENTRY							
NAME	ORIGIN	LENGTH		NAME	LOCATION	NAME	LOCATION	NAME	LOCATION	NAME	LOCATION
READ02N	00	2B4E									
ILBOEXT *	2B50	68									
ILBOQIO *	2BB8	7F4		ILBOEXT0	2B52	ILBOEXT1	2B56				
				ILBOQIO0	2BBA	ILBOQIO1	2BBE				
ILBOSMG *	33B0	E58		ILBOSMG0	33B2						
ILBOSPA *	4208	884									
ILBOSRV *	4A90	4D4		ILBOSPA0	420A	ILBOSPA1	420E	ILBOSPA2	4212		
				ILBOSRV0	4A9A	ILBOSR5	4A9A	ILBOSR3	4A9A	ILBOSR	4A9A
				ILBOSRV1	4A9E	ILBOSTP1	4A9E	ILBOST	4AA2	ILBOSTP0	4AA2
Y2KDFMT *	4F68	60A									
Y2KDOWN *	5578	FB									
Y2KGTOA *	5678	2DF									
Y2KGETD *	5958	201									
Y2KGTOJ *	5B60	137									
Y2KJTOG *	5C98	1CD									
Y2KATOG *	5E68	27A									
ILBOBEG *	60E8	1DC									
				ILBOBEG0	60EA						
ILBOCMM *	62C8	530		ILBOCMM0	62CA	ILBOCMM1	62CE				
ILBOCOM0 *	67F8	173									
				ILBOCOM	67F8						
ILBOCVB *	6970	428									
				ILBOCVB0	6972	ILBOCVB1	6976				
ILBOINT *	6D98	124		ILBOINT0	6D9A						
ILBOMSG *	6EC0	100									
				ILBOMSG0	6EC2						
ILBOSDB *	6FC0	42C									
				ILBOSDB0	6FC2						
ILBOVIO *	73F0	1F28		ILBOVIO0	73F2						
ILBOVOC *	9318	2392									
				ILBOVOC0	931A	ILBOVOC1	931E				
ILBOCHN *	B6B0	1DC									
				ILBOCHN0	B6B2						
ILBOCKP *	B890	7E		ILBOCKP0	B892	ILBOCKP1	B896				

ENTRY ADDRESS 00

TOTAL LENGTH B910
***READ02N DOES NOT EXIST BUT HAS BEEN ADDED TO DATA SET
AUTHORIZATION CODE IS 0.