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SPLA

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(1) Program Number (to be filled by SPLA) 370D-05.0.005

(2) Title of Program MIFINDEX: INDEX for Sysgen
Stage II output on microfiche,
SEAS S15-008

(3) System Type(s) (Machine) S/370

(4) Search Key(s)

(5) Programming Systems/Languages PL/I, VS1

(6) Primary Subject Code

(7) Minimum System Requirements S/370

(8) New (N) or Revision (R) (if revision, show prior Program Number in Item 1) N

(9) Date of Submittal 12/78

(10) Documentation (number of original pages submitted) 16

(11) Author's Name and Address BURKHARDT MARIO
ZURCHER KANTONALBANK, ABTEILUNG EDV,
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CH-8022 ZURICH
SWITZERLAND

(12) Direct Technical Inquiries to Name & Address
 (if different than Author) SAME

(13) Submitter's Installation Membership Code SEAS - S15

(14) Abstract (should contain sufficient information for a reader to determine the value of the program). Listed on the reverse side of this form are subjects which may serve as a guide for a descriptive abstract.

SHARE PROGRAM LIBRARY SUBMITTAL FORM

Subject Guide:

- Purpose
- Programming Language used
- Version and modification level or release number
- Field of application
- Type of routine (main program, subroutine, etc.)
- Specific description of machine requirements

(ATTACHED)

DISTRIBUTION TAPE:

NO LABEL

1 FILE DCB=(RECFM=FB, LRECL=80, BLKSIZE=22800)

(Please attach additional pages if necessary) Total pages attached _____

An "Acknowledgement of Assistance" statement must be attached to this Submittal Form.

Permission to Publish

"I hereby give the SHARE Program Library Agency permission to reprint, reproduce, and distribute this program"

(15) Signature of Submitter and Date

(15) Signature of Installation Addressee

SEAS

SEAS Form 1 (1978)

SUBMITTAL FORM FOR SEAS ITEMS TO EUROCOPI

Catalogue number (to be filled by EUROCOPI): SEAS-S15-008

Owner: (Name) Zürcher Kantonalbank SEAS code: S 015
(Address) Abteilung EDV, Bahnhofstrasse 9, CH-8022 Zürich
Postfach

Name and address of individual to whom technical enquiries about the submitted item should be sent:

(Name) Burkhardt Mario
(Address) Zürcher Kantonalbank, Abteilung EDV,
Bahnhofstr. 9, Postfach, CH-8022 Zürich

Title (max. 2 lines in English):

MIFIDEX: Index for Sysgen Stage II output on
microfiches

Brief abstract:

MIFIDEX consists of two programs designed to facilitate the use of ^{VSI} Sysgen Stage II output on microfiches (COM). It creates a microfiche index containing the CSECT, entry point and module names. The programs are written in PL/I and have been run under OS/VSI Rel. 3, 4, 5 and 6.

Keywords (according to the standard classification scheme):

Type of contribution:

- ☒ Complete program and documentation
☐ Documentation for complete program
☐ Program fragment and documentation
☐ Documentation of program fragment

Please cross the squares concerned

Scope of distribution:

- ☐ SEAS members only
☐ SEAS members and EUROCOPI subscribe

In the case of computer program material:

Medium ☒ Card deck

☐ Magnetic tape: Label:
Tracks:
Density:

Please cross the square concerned

Computer systems for which the item is valid:

Hardware: IBM /370

Software: VS1

Is the item a description of a program or program fragment that is offered for a fee?

☐ Yes ☒ No Please cross the square concerned

If the answer is yes, to whom should contract enquiries be directed?

(Name)

(Address)

I hereby submit the item described on this form to the EUROCOPI library under the conditions agreed between SEAS and EUROCOPI

Owner's official approved signature:



Name of person signing:

Burkhardt Mario

Date of Submission:

Zürich, 26.05.77

MIFIDEX

MIFIDEX

1

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1. Abstract

MIFIDEX consists of two programs designed to facilitate the use of Sysgen Stage II output on microfiches (COM). It creates a microfiche index containing the CSECT, entry point and module names. The programs are written in PL/I and have been run under OS/VS1 Rel. 3, 4, 5 and 6.

2. Description

2.1 Step 1 The Stage II output of the VSI Systemgeneration is used as input to the program EXTR.

The Stage II output has to be written with the standard system output writer (IEFOSC01) to a tape using RECFM FA or FBA. Program EXTR processes the output of assembler, linkage editor and IEBCOPY steps. Subroutine LOC of program EXTR calculates the Fiche and Frame number for KODAK 48x or 24x microfiches. Both versions of the subroutine are provided.

'Location Records' are created for

- CSECT's and ENTRY-POINT's
if the module was assembled
- Load Module and alias names
if the module was link edited
- Module name (in target library)
if the module was copied

2.2 Step 2 The file of 'Location Records' is sorted.

2.3 Step 3 Program PRINT uses the sorted 'Location Records' as input and prints the Name-Location Tuples in a 50 x 4 matrix per page.

MIFIDEX

Sample JCL

4

```

/* **** */
/*
/*          J C L      S A M P L E
/*
/* **** */
/*
/*      //  JOB
/*      //  EXEC PLIXCG
/*      //SYSIN DD *
/*          ****
/*          *
/*          *  PROGRAM      EXTR
/*          *
/*          ****
/*      * PROCESS ;
/*          ****
/*          *
/*          *  SUBROUTINE LOC
/*          *
/*          ****
/*      //GO.SYSUT1 DD ... STAGE II OUTPUT
/*      //GO.SYSUT2 DD ... TEMP-DATASET 1 DCB..LRECL=80,RECFM=F..
/*      //  EXEC SORT
/*      //SORTIN  DD ... TEMP-DATASET 1
/*      //SORTOUT DD ... TEMP-DATASET 2
/*      //SYSIN DD *
/*          SORT FIELDS=(2,8,CH,A)
/*          *
/*          //  EXEC PLIXCG
/*          //SYSIN DD *
/*          ****
/*          *
/*          *  PROGRAM      PRINT
/*          *
/*          ****
/*      //SYSIN      DD *
/*          T I T L E  -  C A R D      (OPTIONAL)
/*      //GO.SYSUT1 DD ... TEMP-DATASET 2
/*      //SYSUT2     DD SYSOUT=A,DCB..LRECL=104,RECFM=FA | FBA..
/*
/* **** */

```

MIFIDEX

Sample JCL

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PL/I OPTIMIZING COMPILER

STMT LEV NT

```
/* **** */
/*
/*      PROGRAM:  E X T R
/*
/*      VERSION: 1      MODIFICATION: 0
/*
/* **** */
/*
/*      CREATES LOCATION RECORDS FOR
/*
/*      - CSECT'S AND ENTRY'S  OF ASSEMBLED MODS
/*      - LOADMODULE AND ALIAS NAMES OF LINKED MODS
/*      - MODULE NAMES OF COPIED MODS
/*
/* **** */
/*
/*      AUTHOR:
/*      M.BURKHARDT
/*      ZUERCHER KANTONALBANK
/*      ABT. EDV
/*      POSTFACH
/*      CH-8022 ZUERICH
/*      SWITZERLAND
/*
/* **** */
```

MIFIDEX

Program Listing

6

PL/I OPTIMIZING COMPILER

/*

M I F I D E X DESCRIPTION

STMT LEV NT

```

1      0 EXTR   : PROC OPTIONS (MAIN) REORDER ;

2      1 0 DCL   LOC ENTRY ;

3      1 0 DCL   1 RECI          BASED (P) ,
                      2 CCI          CHAR (1) ,
                      2 FTEST        CHAR (7) ,
                      2 FILLER        CHAR (2) ,
                      2 SYMBOLI1      CHAR (8) ;

4      1 0 DCL   1 RECI2         BASED (P) ,
                      2 FILLER        CHAR (1) ,
                      2 FTEST2        CHAR (4) ,
                      2 SYMBOLI2      CHAR (8) ;

5      1 0 DCL   1 RECIH         BASED (P) ,
                      2 FILLER        CHAR (5) ,
                      2 FTESTH2       CHAR (1) ;

6      1 0 DCL   1 RECI3         BASED (P) ,
                      2 FILLER1       CHAR (1) ,
                      2 SYMBOLI3      CHAR (8) ,
                      2 FILLER2       CHAR (1) ,
                      2 FTEST3        CHAR (4) ;

7      1 0 DCL   1 RECO          CHAR (1) ' INIT ( " " ) ,
                      2 FILLER1       CHAR (8) ,
                      2 SYMBOLO       CHAR (2) ' INIT ( " " ) ,
                      2 FILLER2       CHAR (8) ,
                      2 FICHIND        CHAR (3) ' INIT ( " " ) ,
                      2 NATURE         CHAR (1) ' INIT ( " " ) ,
                      2 FILLER4       CHAR (57) ' INIT ( (57) " " ) ;

8      1 0 DCL   NPAGE          INIT (-1) ;
9      1 0 DCL   N              INIT (-2) ;

10     1 0 DCL   SKIP           CHAR (1) ' INIT ( '1' ) STATIC ;

11     1 0          ON ENDFILE (SYSUT1) GO TO FINI ;

```

MIFIDEX

Program Listing

7

PL/I OPTIMIZING COMPILER

/*

M I F I D E X DESCRIPTION

STMT LEV NT

```

12  1  0      DO WHILE (*1*B);
13  1  1      READ FILE (SYSUT1) SET (P);
14  1  1      IF CC1 = SKIP
15  1  1      THEN NPAGE = NPAGE + 1 ;
16  1  2          IF FTEST = 'IEB154I' | FTEST = 'IEB155I'
17  1  2              THEN
18  1  2                  DO;
19  1  2                      NATURE = 'C' ;
20  1  1                      SYMBOLO = SYMBOLI1 ;
21  1  2                      GO TO EXIT1 ;
22  1  2                      END;
23  1  2          IF FTEST2 = '*****' & FTESTH2 ^= '*'
24  1  2              THEN
25  1  1                  DO;
26  1  2                      NATURE = 'L' ;
27  1  2                      SYMBOLO = SYMBOLI2 ;
28  1  2                      GO TO EXIT1 ;
29  1  1                      END;
30  1  1          IF FTEST3 = ' SD ' | FTEST3 = ' LD '
31  1  2              THEN
32  1  3                  DO;
33  1  3                      CALL LOC (NPAGE,FICHIND) ;
34  1  3                      N = NPAGE;
35  1  2                      END;
36  1  2          WRITE FILE (SYSUT2) FROM (RECO);
37  1  2          NATURE = ' ' ;
38  1  1          END;
39  1  1      ELSE;
40  1  0      FINI;;
41  1  0      END;

```

MIFIDEX

Program Listing

8

PL/I OPTIMIZING COMPILER

/*

SUBROUTINE: L O C

SOURCE LISTING

STMT LEV NT

```
/*      SUBROUTINE: L O C                                */
/*                                                    */
/* * * * * * * * * * * * * * * * * * * * * * * * * */
/*                                                    */
/*      SUBROUTINE: L O C                                */
/*                                                    */
/*      VERSION: 1          MODIFICATION: 0              */
/*                                                    */
/* * * * * * * * * * * * * * * * * * * * * * * * * */
/*                                                    */
/*      CALCULATES THE FICHE AND FRAME NUMBER FOR      */
/*                                                    */
/*      K O D A K  24X FICHES                          */
/*                                                    */
/* * * * * * * * * * * * * * * * * * * * * * * * * */
/*                                                    */
/*      AUTHOR:                                          */
/*      M.BURKHARDT                                     */
/*      ZUERCHER KANTONALBANK                           */
/*      ABT. EDV                                         */
/*      POSTFACH                                         */
/*      CH-8022 ZUERICH                                 */
/*      SWITZERLAND                                     */
/*                                                    */
/* * * * * * * * * * * * * * * * * * * * * * * * * */
```

MIFIDEX

Program Listing

9

PL/I OPTIMIZING COMPILER

/*

SUBROUTINE: L O C

STMT LEV NT

```
1      0 LOC : PROC(NPAGE,FICHIND) REORDER ;

2      1 0 DCL 1 HSTR STATIC ,
          2 FICHENR PIC'ZZZ',
          2 FILLER4 CHAR(1) INIT(' '),
          2 ROW CHAR(1),
          2 FILLER5 CHAR(1) INIT(' '),
          2 KOL PIC'99';

3      1 0 DCL FICHIND CHAR(8) ;

4      1 0 DCL NFRAME INIT(62) STATIC ;

5      1 0 DCL CROW(7) CHAR(1) INIT('A','B','C','D','E','F','G')
          STATIC ;

6      1 0 DCL NROW INIT(7) STATIC ;
7      1 0 N1 = FLOOR(NPAGE / NFRAME) + 1 ;
8      1 0 N2 = MOD(NPAGE,NFRAME) ;
9      1 0 N3 = MOD(N2,NROW) + 1 ;
10     1 0 N4 = FLOOR(N2/NROW) + 1 ;
11     1 0 FICHENR = N1;
12     1 0 ROW = CROW(N3);
13     1 0 KOL = N4;
14     1 0 FICHIND = STRING(HSTR) ;
15     1 0 RETURN;
16     1 0 END;
```

MIFIDEX

Program Listing

10

PL/I OPTIMIZING COMPILER

/*

SUBROUTINE: L O C

SOURCE LISTING

STMT LEV NT

```
/*      SUBROUTINE:  L O C                                */
/*                                                    */
/* * * * * * * * * * * * * * * * * * * * * * * * * */
/*      SUBROUTINE:  L O C                                */
/*                                                    */
/*      VERSION: 1          MODIFICATION: 0              */
/*                                                    */
/* * * * * * * * * * * * * * * * * * * * * * * * * */
/*      CALCULATES THE FICHE AND FRAME NUMBER FOR      */
/*                                                    */
/*      K O D A K  48X FICHES                            */
/*                                                    */
/* * * * * * * * * * * * * * * * * * * * * * * * * */
/*      AUTHOR:                                           */
/*      M.BURKHARDT                                       */
/*      ZUERCHER KANTONALBANK                             */
/*      ABT. EDV                                           */
/*      POSTFACH                                           */
/*      CH-8022 ZUERICH                                    */
/*      SWITZERLAND                                       */
/*                                                    */
/* * * * * * * * * * * * * * * * * * * * * * * * * */
```


MIFIDEX

Program Listing

11

PL/I OPTIMIZING COMPILER

/*

SUBROUTINE: L O C

STMT LEV NT

```

1      0 LOC : PROC(NPAGE,FICHIND) REORDER ;

2      1 0 DCL 1 HSTR STATIC ,
          2 FICHENR      PIC'ZZZ',
          2 FILLER4      CHAR(1)  INIT(' '),
          2 ROW          CHAR(1) ,
          2 FILLER5      CHAR(1)  INIT(' '),
          2 KOL          PIC'99';

3      1 0 DCL      FICHIND      CHAR(8) ;

4      1 0 DCL      NFRAME      INIT (269) STATIC ;

5      1 0 DCL      CROW (15) CHAR(1)  INIT ('A','B','C','D','E','F','G','H',
          'I','J','K','L','M','N','O')
          STATIC ;

6      1 0 DCL      NROW          INIT (15) STATIC ;
7      1 0      N1 = FLOOR(NPAGE / NFRAME) + 1 ;
8      1 0      N2 = MOD(NPAGE,NFRAME) ;
9      1 0      N3 = MOD(N2,NROW) + 1 ;
10     1 0      N4 = FLOOR(N2/NROW) + 1 ;
11     1 0      FICHENR = N1;
12     1 0      ROW = CROW(N3);
13     1 0      KOL = N4;
14     1 0      FICHIND = STRING(HSTR) ;
15     1 0      RETURN;
16     1 0      END;

```

MIFIDEX

Program Listing

12

PL/I OPTIMIZING COMPILER

/*

PROGRAM: P R I N T

SOURCE LISTING

STMT LEV NT

```
/*      PROGRAM:  P R I N T                                */
/*                                                     */
/* *****                                              */
/*                                                     */
/*      PROGRAM:  P R I N T                                */
/*                                                     */
/*      VERSION: 1          MODIFICATION: 0              */
/*                                                     */
/* *****                                              */
/*                                                     */
/*      PRINTS   NAME - LOCATION TUPLES                 */
/*                                                     */
/*      IN A   50 X 4  MATRIX                             */
/*                                                     */
/* *****                                              */
/*                                                     */
/*      AUTHOR:                                          */
/*      M.BURKHARDT                                     */
/*      ZUERCHER KANTONALBANK                           */
/*      ABT. EDV                                         */
/*      POSTFACH                                         */
/*      CH-8022 ZUERICH                                 */
/*      SWITZERLAND                                     */
/*                                                     */
/* *****                                              */
```

MTFIDEX

Program Listing

13

PL/I OPTIMIZING COMPILER

/*

PROGRAM: P R I N T

STMT LEV NT

```

1      0 PRINT: PROC OPTIONS (MAIN) REORDER ;

2      1 0 DCL SYSUT1 FILE STREAM ;

3      1 0 DCL SYSUT2 FILE STREAM PRINT ;

4      1 0 DCL HEAD      CHAR (80)  ;

5      1 0 DCL B(1K,1D)  CHAR (22)  ;

6      1 0 DCL ID INIT (50)  STATIC ;           /* NUMBER OF ROWS      */

7      1 0 DCL IK INIT ( 4)  STATIC ;           /* NUMBER OF COLUMNS */

8      1 0 DCL (IP,N,M) INIT(0) ;

9      1 0      ON ENDFILE (SYSIN)  ;

10     1 0      ON ENDFILE (SYSUT1) M= 1;

11     1 0      OPEN FILE (SYSUT2) LINESIZE ((IK-1)*(22+5)+22)  ;

12     1 0      HEAD = ' ' ;

13     1 0      GET EDIT (HEAD) (A(80));

14     1 0      DO WHILE (M=0) ;
15     1 1      B = ' ' ;
16     1 1      N = N + 1 ;

17     1 1      GET FILE (SYSUT1) EDIT (B) (COL (2) ,A(22)) ;

18     1 1      PUT FILE (SYSUT2) EDIT (HEAD,'PAGE:',N,
      (( B(1,K) DO I=1 TO IK) DO K=1 TO ID))
      ((IP)PAGE,COL(08),A(80),X(08),A(5),F(3),SKIP(4),
      (ID) (COL(1), (IK-1) (A(22),X(5)),A(22))) ;

19     1 1      IP = 1 ;
20     1 1      END;
21     1 0      END;

```

MIFIDEX

Sample Output

14

RELEASE 6

PAGE: 4

IEBISC	17 E 02	L	IECTUCB	14 M 12	C	IEDQAM	14 0 14	C	IEDQB4	14 A 15	C
IEBISF	17 D 02	L	IECTUCBX	14 M 12	C	IEDQAN	14 0 14	C	IEDQB7	14 A 15	C
IEBISL	17 C 02	L	IECXAPG	8 H 08	A	IEDQAO	14 0 14	C	IEDQCA	14 C 15	C
IEBISPL	17 F 02	L	IECXILR	7 L 13	A	IEDQAP	14 0 14	C	IEDQCHAR	14 B 13	C
IEBISU	17 B 02	L	IECXTRA	13 H 02	A	IEDQAR	14 0 14	C	IEDQCHJ	14 B 13	C
IEBTPCH	16 M 16	L	IECZTAB	3 C 14	A	IEDQAR	14 0 14	C	IEDQCKO	14 B 13	C
IEBUPTE	16 C 17	L	IECZTAB	3 C 14	A	IEDQAS	14 0 14	C	IEDQDA	14 C 15	C
IECBFB1	14 H 08	C	IECZTAB	3 C 14	A	IEDQAT	14 0 14	C	IEDQDID	14 B 13	C
IECCPLOO	8 H 08	A	IECZTAB	3 C 14	A	IEDQAU	14 0 14	C	IEDQEC	14 C 15	C
IECCST	8 H 08	A	IECZTAB	3 C 14	A	IEDQAV	14 0 14	C	IEDQET	14 C 15	C
IECDMS	8 H 08	A	IECZTAB	3 C 14	A	IEDQAV	14 0 14	C	IEDQEU	14 C 15	C
IECHK1	8 H 08	A	IEDJAA	14 B 15	C	IEDQAX	14 0 14	C	IEDQLW	14 C 15	C
IECHK13	8 H 08	A	IEDJAB	14 B 15	C	IEDQAY	14 0 14	C	IEDQEZ	14 C 15	C
IECHK2	8 H 08	A	IEDJAC	14 N 14	C	IEDQAZ	14 0 14	C	IEDQE1	14 C 15	C
IECHK3	8 H 08	A	IEDJAD	14 N 14	C	IEDQAZ	14 0 14	C	IEDQE2	14 C 15	C
IECHK4	8 H 08	A	IEDJAE	17 J 13	C	IEDQAZ	14 0 14	C	IEDQE3	14 C 15	C
IECHK5	8 H 08	A	IEDJAF	14 N 14	C	IEDQAZ	14 0 14	C	IEDQE4	14 C 15	C
IECHK6	8 H 08	A	IEDJAG	14 N 14	C	IEDQAZ	14 0 14	C	IEDQE6	14 C 15	C
IECIERLC	7 L 13	A	IEDJAH	14 N 14	C	IEDQAZ	14 0 14	C	IEDQE8	14 C 15	C
IECIH10	8 H 08	A	IEDJAJ	14 N 14	C	IEDQAZ	14 0 14	C	IEDQFA	14 A 15	C
IECILCH	8 H 08	A	IEDJAK	17 J 13	C	IEDQAZ	14 0 14	C	IEDQFA1	14 A 15	C
IECILK1	8 H 08	A	IEDJAL	14 N 14	C	IEDQAZ	14 0 14	C	IEDQFA2	14 A 15	C
IECILK2	8 H 08	A	IEDJAM	14 N 14	C	IEDQAZ	14 0 14	C	IEDQFE	14 A 15	C
IECINT	8 H 08	A	IEDJAN	14 N 14	C	IEDQAZ	14 0 14	C	IEDQFEA	14 B 15	C
IECIOLYS	17 G 04	L	IEDJAP	14 N 14	C	IEDQAZ	14 0 14	C	IEDQFE10	14 C 15	C
IECIOQET	8 H 08	A	IEDJAQ	14 N 14	C	IEDQAZ	14 0 14	C	IEDQFE20	14 C 15	C
IECIOS	8 H 08	A	IEDJAR	14 N 14	C	IEDQAZ	14 0 14	C	IEDQFE30	14 C 15	C
IECIOSO	8 H 08	A	IEDJAS	14 N 14	C	IEDQAZ	14 0 14	C	IEDQFEW	14 C 15	C
IECITSAR	8 H 08	A	IEDJAT	14 B 15	C	IEDQAZ	14 0 14	C	IEDQGA	14 C 15	C
IECIXAVL	8 H 08	A	IEDJAT	14 B 15	C	IEDQAZ	14 0 14	C	IEDQGC	14 B 13	C
IECOLTVT	8 H 08	A	IEDJAT	14 B 15	C	IEDQAZ	14 0 14	C	IEDQGH	14 A 15	C
IECPBLDL	3 C 14	A	IEDJAT	14 B 15	C	IEDQAZ	14 0 14	C	IEDQGP	14 A 15	C
IECPCNVT	3 C 14	A	IEDJAT	14 B 15	C	IEDQAZ	14 0 14	C	IEDQGG	14 C 15	C
IECPESW	8 H 08	A	IEDJAT	14 B 15	C	IEDQAZ	14 0 14	C	IEDQGR	14 A 15	C
IECPRLTV	3 C 14	A	IEDJAT	14 B 15	C	IEDQAZ	14 0 14	C	IEDQGT	14 C 15	C
IECQBF61	14 H 08	C	IEDJAT	14 B 15	C	IEDQAZ	14 0 14	C	IEDQHG	14 A 15	C
IECRMS	8 H 08	A	IEDJAT	14 B 15	C	IEDQAZ	14 0 14	C	IEDQHI	14 C 15	C
IECSTB	8 H 08	A	IEDJAT	14 B 15	C	IEDQAZ	14 0 14	C	IEDQHK	14 A 15	C
IECTATNR	14 M 12	C	IEDJAT	14 B 15	C	IEDQAZ	14 0 14	C	IEDQHM	14 A 15	C
IECTCHGN	14 M 14	C	IEDJAT	14 B 15	C	IEDQAZ	14 0 14	C	IEDQHM1	14 A 15	C
IECTDERX	14 M 12	C	IEDJAT	14 B 15	C	IEDQAZ	14 0 14	C	IEDQHM2	14 A 15	C
IECTDECB	14 M 12	C	IEDJAT	14 B 15	C	IEDQAZ	14 0 14	C	IEDQJN	14 B 13	C
IECTLDIT	14 D 14	C	IEDJAT	14 B 15	C	IEDQAZ	14 0 14	C	IEDQKA	14 A 15	C
IECTIOBX	14 M 12	C	IEDJAT	14 B 15	C	IEDQAZ	14 0 14	C	IEDQKB	14 A 15	C
IECTIFAP	14 M 14	C	IEDJAT	14 B 15	C	IEDQAZ	14 0 14	C	IEDQKC	14 A 15	C
IECTLOPN	14 M 14	C	IEDJAT	14 B 15	C	IEDQAZ	14 0 14	C	IEDQKD	14 A 15	C
IECTONLT	14 M 14	C	IEDJAT	14 B 15	C	IEDQAZ	14 0 14	C	IEDQKE	14 A 15	C
IECTROTI	14 M 12	C	IEDJAT	14 B 15	C	IEDQAZ	14 0 14	C	IEDQMASK	14 B 13	C
IECTSCAN	14 M 14	C	IEDJAT	14 B 15	C	IEDQAZ	14 0 14	C	IEDQNA	14 A 15	C
IECTTRNS	14 M 14	C	IEDJAT	14 B 15	C	IEDQAZ	14 0 14	C	IEDQNA2	14 C 15	C