



## PL/I (PLI) 言語コンバージョン・サービス

PL/I 言語を COBOL に変換します。

以下に PL/I 言語から COBOL 言語に変換した例を掲載します。

### プログラム例

#### 変換前 PL/I ソース (一部割愛)

```
* PROCESS INC,NEST,GRAPHIC ;
SAMPPLI : PROC OPTIONS(MAIN) ; /** SAMPLE START ***/
%PAGE;
/*--- FOR RDB -----*/
EXEC SQL INCLUDE SQLCA ;          /* SQL レンラクイ */
EXEC SQL INCLUDE SAMPTBL;
EXEC SQL INCLUDE SAMP2TB;
EXEC SQL WHENEVER SQLERROR GO TO #DB2ERR;
EXEC SQL WHENEVER SQLWARNING GO TO #DB2WAR;
DCL DATE ENTRY RETURNS(CHAR(6)) ; /* SYS DATE
%PAGE;
DCL CARDFL FILE RECORD SEQUENTIAL INPUT ;
DCL OUTFILE FILE RECORD SEQUENTIAL OUTPUT ;
DCL 1 CARDR ,
    3 R0001 CHAR ( 1) ,
    3 R0002 CHAR ( 1) ,
    3 R0003 CHAR ( 1) ,
    3 R0004 CHAR ( 1) ,
    3 R0005 CHAR ( 1) ,
    3 R0006 CHAR ( 75) ;
DCL 1 OUTREC ,          /* シュツリョク ファイル */
    3 A0001 CHAR ( 7) ,
    3 A0002 CHAR ( 4) ,
    3 A0003 CHAR ( 10) ,

%PAGE;
*****/
/* WORK DECLARE */
/*****/

DCL 1 WORK_AREA ,
    3 WK_DATE CHAR (10) , /* ヒズケ */
    3 WK_TIME CHAR (08) , /* ジカン */
    3 WK_TMS CHAR (26) , /* タイムスタンプ */
    3 WK_CHAR CHAR (90) , /* モジ ヘンスウ */
    3 SW_ERR CHAR (02) INIT ('OF') , /* ERROR SW */
```

#### 変換後 COBOL ソース (一部割愛)

```
*                ** SAMPPLI START **
EJECT
IDENTIFICATION DIVISION.
PROGRAM-ID.     SAMPPLI.
ENVIRONMENT     DIVISION.
CONFIGURATION   SECTION.
INPUT-OUTPUT    SECTION.
FILE-CONTROL.
    SELECT CARDFL ASSIGN TO DISK-CARDFL
           FILE STATUS CARDFL-FS.
    SELECT OUTFILE ASSIGN TO DISK-OUTFILE
           FILE STATUS OUTFILE-FS.
DATA           DIVISION.
FILE           SECTION.
FD CARDFL.
01 CARDFL-REC PIC X(080).
FD OUTFILE.
01 OUTFILE-REC PIC X(132).
WORKING-STORAGE SECTION.
*-----*
*                作業域
*-----*
EJECT
01 CARDR.
    03 R0001 PIC X(1).
    03 R0002 PIC X(1).
    03 R0003 PIC X(1).
    03 R0004 PIC X(1).
    03 R0005 PIC X(1).
    03 R0006 PIC X(75).
*                * シュツリョク ファイル *
01 OUTREC.
    03 A0001 PIC X(7).
    03 A0002 PIC X(4).
    03 A0003 PIC X(10).
```

中略

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3 SW_LEAVE CHAR (02) INIT ('OF') ; /* LEAVE SW */

DCL 1 WORK_PIC ,
3 WK_CNT PIC '99' INIT (1) , /* カウント */
3 WK_PIC4 PIC '(4)9' ;

/*****
/* MAIN PROCEDURE */
*****/
%SKIP;
OPEN FILE(CARDFL) ,
FILE(OUTFILE) ;
CALL INIT_100 ;
CALL U_100_READ ;
DO WHILE(SW_SAMP2TB_EOF = 'OF') ;
CALL EDIT_OUTFILE ;
WRITE FILE(OUTFILE) FROM(OUTREC) ;
CALL U_100_READ ;
END;
CLOSE FILE(CARDFL) ,
FILE(OUTFILE) ;

%PAGE;
/*****
/* INIT ショリ */
*****/
/*****
INIT_100 : PROC ;
IF SUBSTR(DATE,1,2) > '90' THEN
WK_DATE = '19' || SUBSTR(DATE,1,2) || /* ショリヒズケ */
'-' || SUBSTR(DATE,3,2) ||
'-' || SUBSTR(DATE,5,2) ;
ELSE
WK_DATE = '20' || SUBSTR(DATE,1,2) ||
'-' || SUBSTR(DATE,3,2) ||
'-' || SUBSTR(DATE,5,2) ;
WK_TIME = SUBSTR(TIME,1,2) || ':' || /* ショリジカン */
SUBSTR(TIME,3,2) || ':' ||
SUBSTR(TIME,5,2) ;
WK_TMS = WK_DATE || '-' || /* タイムスタンプ */
SUBSTR(WK_TIME,1,2) || ':' ||
SUBSTR(WK_TIME,4,2) || ':' ||
SUBSTR(WK_TIME,7,2) || '.000000' ;

%SKIP;
READ FILE(CARDFL) INTO(CARDR) ;
%SKIP;
SAMPAREA(*) = '' ;
EXEC SQL DECLARE SAMPCSR CURSOR FOR
SELECT Z0001 ,
Z0002
FROM SAMPTBL
WHERE Z0003 = '2304'

ORDER BY Z0001 ;
EXEC SQL OPEN SAMPCSR ;
IF SQLCODE = 0 THEN
DO ;
EXEC SQL FETCH SAMPCSR INTO :DCLSAMPTBL.Z0001 ,
:DCLSAMPTBL.Z0002 ;

```

```

EJECT
* *****
* * WORK DECLARE
* *****
01 WORK-AREA.
* *ヒズケ*
03 WK-DATE PIC X(10).
* *ジカン*
03 WK-TIME PIC X(08).
* *タイムスタンプ*
03 WK-TMS PIC X(26).
* *モジヘンスウ*
03 WK-CHAR PIC X(90).
* *ERROR SW*
03 SW-ERR PIC X(02) VALUE 'OF'.
* *LEAVE SW*
03 SW-LEAVE PIC X(02) VALUE 'OF'.

01 WORK-PIC.
* *カウント*
03 WK-CNT PIC 99 VALUE 1.
03 WK-PIC4 PIC (4)9.

中略

EJECT
LINKAGE SECTION.
EJECT
PROCEDURE DIVISION.
EJECT
* --- FOR DB2 -----*
* * SQL レンライキ *
EXEC SQL INCLUDE SQLCA
END-EXEC.
EXEC SQL INCLUDE SAMPTBL
END-EXEC.
EXEC SQL INCLUDE SAMP2TB
END-EXEC.
EXEC SQL WHENEVER SQLERROR GO TO DB2ERR--C
END-EXEC.
EXEC SQL WHENEVER SQLWARNING GO TO DB2WAR-C
END-EXEC.
EJECT
* *****
* * MAIN PROCEDURE (0,0) *
* *****
SKIP1
OPEN INPUT CARDFL.
OPEN OUTPUT OUTFILE.
PERFORM INIT-100 .
PERFORM U-100-READ .
PERFORM TEST BEFORE UNTIL NOT (SW-
SAMP2TB-EOF = 'OF')
PERFORM EDIT-OUTFILE
WRITE OUTFILE-REC FROM OUTREC
PERFORM U-100-READ
END-PERFORM.
CLOSE CARDFL .
CLOSE OUTFILE.

```

```

DO WHILE( SQLCODE = 0 );

END ;
END ;
EXEC SQL CLOSE SAMPCSR ;
END INIT_100 ;
%PAGE;
/*****/
/* SAMP2TB READ */
/*****/
U_100_READ : PROC ;
EXEC SQL FETCH SAMP2TB_C
      INTO :DCLSAMP2TB.A0001 ,
           :DCLSAMP2TB.A0002 ,
           :DCLSAMP2TB.A0003 ,

           :DCLSAMP2TB.A0100 ,
           :DCLSAMP2TB.A0101 ,
           :DCLSAMP2TB.A0102 ;

IF SQLCODE = 0 THEN;
ELSE SW_SAMP2TB_EOF = 'ON' ;
%SKIP;
END U_100_READ ;
%PAGE;
/*****/
/* シュツリョク ヘンシュウ */
/*****/
EDIT_OUTFILE : PROC ;
      OUTREC      = "      ;
      OUTREC.A0001 = DCLSAMP2TB.A0001 ;
      OUTREC.A0002 = DCLSAMP2TB.A0002 ;
      OUTREC.A0003 = DCLSAMP2TB.A0003 ;

      OUTREC.A0100 = DCLSAMP2TB.A0100 ;
      OUTREC.A0101 = DCLSAMP2TB.A0101 ;
      OUTREC.A0102 = DCLSAMP2TB.A0102 ;
%SKIP;
END EDIT_OUTFILE ;
END SAMPPLI;

```

```

EJECT
* *****/
* * INIT ショリ *
* *****/
INIT-100 SECTION.
INIT-100-START.
* * ショリヒズケ *
IF DATE(1:2) > '90' THEN
      STRING '19' DATE(1:2)
           '-' DATE(3:2)
           '-' DATE(5:2) DELIMITED BY SIZE INTO
           WK-DATE
ELSE
      STRING '20' DATE(1:2)
           '-' DATE(3:2)
           '-' DATE(5:2) DELIMITED BY SIZE INTO
           WK-DATE
END-IF.
* * ショリジカン *
STRING TIME(1:2) ':'
           TIME(3:2) ':'
           TIME(5:2) DELIMITED BY SIZE INTO WK-TIME.
* * タイムスタンフ *
STRING WK-DATE '-'
           WK-TIME(1:2) ':'
           WK-TIME(4:2) ':'
           WK-TIME(7:2) '.000000' DELIMITED BY SIZE
           INTO WK-TMS.
SKIP1
      READ CARDFL INTO CARDR .
SKIP1
*
      INITIALIZE SAMPAREA.
      EXEC SQL DECLARE SAMPCSR CURSOR FOR
            SELECT Z0001 ,
                   Z0002
            FROM SAMPTBL
            WHERE Z0003 = '2304'
            ORDER BY Z0001
      END-EXEC.
      EXEC SQL OPEN SAMPCSR
      END-EXEC.
      IF SQLCODE = 0 THEN

            EXEC SQL FETCH SAMPCSR
            INTO :DCLBHZ100T.Z0001 ,
                :DCLBHZ100T.Z0002
            END-EXEC
            PERFORM TEST BEFORE UNTIL NOT ( SQLCODE = 0 )

            中略

            END-PERFORM
            EXEC SQL CLOSE SAMPCSR
            END-EXEC
      ELSE
            END-IF.
INIT-100-END. EXIT.
EJECT

```

```

* *****
* * SAMP2TB READ *
* *****

U-100-READ SECTION.
U-100-READ-START.
EXEC SQL FETCH SAMP2TB-C
      INTO :DCLSAMP2TB.A0001 ,
           :DCLSAMP2TB.A0002 ,
           :DCLSAMP2TB.A0003 ,

      中略

           :DCLSAMP2TB.A0100 ,
           :DCLSAMP2TB.A0101 ,
           :DCLSAMP2TB.A0102

END-EXEC.
IF SQLCODE = 0 THEN
  CONTINUE
ELSE
  MOVE 'ON' TO SW-SAMP2TB-EOF
END-IF.

SKIP1
U-100-READ-END. EXIT.
EJECT
* *****
* * シュリヨク ヘンシュウ *
* *****

EDIT-OUTFILE SECTION.
EDIT-OUTFILE-START.
INITIALIZE OUTREC .
MOVE A0001 OF DCLSAMP2TB TO A0001 OF OUTREC.
MOVE A0002 OF DCLSAMP2TB TO A0002 OF OUTREC.
MOVE A0003 OF DCLSAMP2TB TO A0003 OF OUTREC.

      中略

MOVE A0100 OF DCLSAMP2TB TO A0100 OF OUTREC.
MOVE A0101 OF DCLSAMP2TB TO A0101 OF OUTREC.
MOVE A0102 OF DCLSAMP2TB TO A0102 OF OUTREC.

SKIP1
EDIT-OUTFILE-END. EXIT.
SAMPPLI-END. GOBACK.

```