

付録-2 一般形式

(1) 見出し部の一般形式

IDENTIFICATION DIVISION.

PROGRAM-ID. プログラム名 [IS { | COMMON | } PROGRAM] .

[AUTHOR. [注記項] ...]

[INSTALLATION. [注記項] ...]

[DATE-WRITTEN. [注記項] ...]

[DATE-COMPILED. [注記項] ...]

[SECURITY. [注記項] ...]

(2) 環境部の一般形式

ENVIRONMENT DIVISION.

CONFIGURATION SECTION.

[SOURCE-COMPUTER. [計算機名 [WITH DEBUGGING MODE] .]]

[OBJECT-COMPUTER. [計算機名

[MEMORY SIZE 整数1 { WORDS
CHARACTERS
MODULES }]

[PROGRAM COLLATING SEQUENCE IS 符号系名1]

[SEGMENT-LIMIT IS 区分番号] .]]

[SPECIAL-NAMES. [[作成者語1

{ IS 呼び名1 [ON STATUS IS 条件名1 [OFF STATUS IS 条件名2]]
IS 呼び名2 [OFF STATUS IS 条件名2 [ON STATUS IS 条件名1]] }]

{ ON STATUS IS 条件名1 [OFF STATUS IS 条件名2]
OFF STATUS IS 条件名2 [ON STATUS IS 条件名1] }]

[ALPHABET 符号系名1 IS

{ STANDARD-1
STANDARD-2
NATIVE
作成者語2 }] ...

{ { 定数1 { THROUGH
THRU } 定数2 } ... }] ...

{ ALSO 定数3 } ... }

[SYMBOLIC CHARACTER

{ { 記号文字1 } ... { IS
ARE } 整数1 } ... } ... [IN 符号系名2]]] ...

[CLASS 字類名1 IS { 定数4 [{ THROUGH
THRU } 定数5] } ...] ..

[CURRENCY SIGN IS 定数6]
 [DECIMAL-POINT IS COMMA.]]

[INPUT-OUTPUT SECTION.
 FILE-CONTROL.
 {ファイル管理記述項} ...

[I-O-CONTROL.

[[RERUN [ON {ファイル名1 }
 作成者語1]]]
 EVERY { [END OF {REEL }
 UNIT }] OF ファイル名2 } ...
 整数1 RECORDS
 整数2 CLOCK-UNITS
 条件名1

[SAME { RECORD
 SORT } AREA FOR ファイル名3 ファイル名4 } ...] ...
 SORT-MERGE

[MULTIPLE FILE TAPE CONTAINS
 {ファイル名5 [POSITION 整数3] } ...] ...]]]]

(3) ファイル管理記述項の一般形式

(a) 順ファイル

SELECT [OPTIONAL] ファイル名1
 ASSIGN TO { 作成者語1 } ...
 定数1
 [RESERVE 整数1 { AREA
 AREAS }]
 [[ORGANIZATION IS] SEQUENTIAL]
 [PADDING CHARACTER IS { データ名1 }]
 定数2
 [RECORD DELIMITER IS { STANDARD-1 }]
 作成者語2
 [ACCESS MODE IS SEQUENTIAL]
 [FILE STATUS IS データ名2] .

(b) 相対ファイル

```
SELECT [OPTIONAL] ファイル名1
  ASSIGN TO { 作成者語1 } ...
           { 定数1 }
  [RESERVE 整数1 [ AREA ]
  [ORGANIZATION IS] AREAS
  [ACCESS MODE IS { SEQUENTIAL [RELATIVE KEY IS データ名1]
                   { RANDOM
                   { DYNAMIC } } RELATIVE KEY IS データ名1 } ]
  [FILE STATUS IS データ名2].
```

(c) 索引ファイル

```
SELECT [OPTIONAL] ファイル名1
  ASSIGN TO { 作成者語1 } ...
           { 定数1 }
  [RESERVE 整数1 [ AREA ]
  [ORGANIZATION IS] INDEXED
  [ACCESS MODE IS { SEQUENTIAL
                   { RANDOM
                   { DYNAMIC } } ]
  RECORD KEY IS データ名1
  [ALTERNATE RECORD KEY IS データ名2 [WITH DUPLICATE] ] ...
  [FILE STATUS IS データ名3].
```

(d) 整列併合用ファイル

```
SELECT ファイル名1 ASSIGN TO { 作成者語1 } ...
                             { 定数1 }
```

(e) 報告書ファイル

```
SELECT [OPTIONAL] ファイル名1
  ASSIGN TO { 作成者語1 } ...
           { 定数1 }
  [RESERVE 整数1 [ AREA ]
  [ [ORGANIZATION IS] SEQUENTIAL ]
  [PADDING CHARACTER IS { データ名1
                        { 定数2 } } ]
  [RECORD DELIMITER IS { STANDARD-1
                       { 作成者語2 } } ]
  [ACCESS MODE IS SEQUENTIAL]
  [FILE STATUS IS データ名2].
```

(4) データ部の一般形式

[DATA DIVISION.
FILE SECTION.
{ファイル記述項 {レコード記述項} ...
 整列併合用ファイル記述項 {レコード記述項} ...}]...]
 報告書ファイル記述項
[WORKING-STORAGE SECTION.
{独立項目記述項} ...]
 {レコード記述項}
[LINKAGE SECTION.
{独立項目記述項} ...]
 {レコード記述項}
[COMMUNICATION SECTION.
 通信記述項 [レコード記述項] ...] ...]
[REPORT SECTION.
 報告書記述項 {報告集団記述項} ...] ...]

(5) ファイル記述項の一般形式

(a) 順ファイル

FD ファイル名1
 [IS EXTERNAL]
 [IS GLOBAL]

 [BLOCK CONTAINS [整数1 TO] 整数2 {RECORDS
 CHARACTERS}]

 [RECORD {CONTAINS 整数3 CHARACTERS
 IS VARYING IN SIZE
 [[FROM 整数4] [TO 整数5] CHARACTERS]
 [DEPENDING ON データ名1]
 CONTAINS 整数6 TO 整数7 CHARACTERS}]

 [LABEL {RESORD IS} {STANDARD}
 {RECORDS ARE} {OMITTED}]

 [VALUE OF {作成者語1 IS {データ名2
 定数1}}] ...]

 [DATA {RECORD IS} {データ名3} ...]
 {RECORDS ARE}

 [LINAGE IS {データ名4
 整数8} LINES [WITH FOOTING AT {データ名5
 整数9}]

 [LINES AT TOP {データ名6
 整数10}] [LINES AT BOTTOM {データ名7
 整数11}]]

 [CODE-SET IS 符号系名1].

(b) 相対ファイル

FD ファイル名1

[IS EXTERNAL]

[IS GLOBAL]

[BLOCK CONTAINS [整数1 TO] 整数2 { RECORDS }
CHARACTERS]

[RECORD { CONTAINS 整数3 CHARACTERS
IS VARYING IN SIZE
[[FROM 整数4] [TO 整数5] CHARACTERS]
[DEPENDING ON データ名1]
CONTAINS 整数6 TO 整数7 CHARACTERS }]

[LABEL { RECORD IS } { STANDARD }
RECORDS ARE } { OMITTED }]

[VALUE OF {作成者語1 IS { データ名2 } } ...]
定数1

[DATA { RECORD IS } { データ名3 } ...]
RECORDS ARE

(c) 索引ファイル

FD ファイル名1

[IS EXTERNAL]

[IS GLOBAL]

[BLOCK CONTAINS [整数1 TO] 整数2 { RECORDS }
CHARACTERS]

[RECORD { CONTAINS 整数3 CHARACTERS
IS VARYING IN SIZE
[[FROM 整数4] [TO 整数5] CHARACTERS]
[DEPENDING ON データ名1]
CONTAINS 整数6 TO 整数7 CHARACTERS }]

[LABEL { RECORD IS } { STANDARD }
RECORDS ARE } { OMITTED }]

[VALUE OF {作成者語1 IS { データ名2 } } ...]
定数1

[DATA { RECORD IS } { データ名3 } ...]
RECORDS ARE

(d) 整列併合用ファイル

SD ファイル名1

[RECORD { CONTAINS 整数1 CHARACTERS
IS VARYING IN SIZE
[[FROM 整数2] [TO 整数3] CHARACTERS]
[DEPENDING ON データ名1]
CONTAINS 整数4 TO 整数5 CHARACTERS }]

[DATA { RECORD IS } { データ名2 } ...]
RECORDS ARE

(e) 報告書ファイル

FD ファイル名1

[IS EXTERNAL]

[IS GLOBAL]

[BLOCK CONTAINS [整数1 TO] 整数2 {RECORDS
CHARACTERS}]

[RECORD {CONTAINS 整数3 CHARACTERS
CONTAINS 整数4 TO 整数5 CHARACTERS}]

[LABEL {RESORD IS } {STANDARD }]
{RECORDS ARE } {OMITTED }

[VALUE OF {作成者語1 IS {データ名1 } } ...]
定数1

[CODE-SET IS 符号系名1]

{REPORT IS } (報告書名1) ...
REPORTS ARE }

(6) データ記述項の一般形式

書き方1

レベル番号 { データ名1 }
 FILLER
[REDEFINES データ名2]
[IS EXTERNAL]
[IS GLOBAL]
[{ PICTURE } IS 文字列]
 PIC
[[USAGE IS] { BINARY
 COMPUTATIONAL
 COMP
 DISPLAY
 INDEX
 PACKED-DECIMAL }]
[[SIGN IS] { LEADING
 TRAILING } [SEPARATE CHARACTER]]
[OCCURS 整数2 TIMES
 [{ ASCENDING
 DESCENDING } KEY IS {データ名3} ...] ...
 [INDEXED BY {指標名1} ...]
 OCCURS 整数1 TO 整数2 TIMES DEPENDING ON データ名4
 [{ ASCENDING
 DESCENDING } KEY IS {データ名3} ...] ...
 [INDEXED BY {指標名1} ...]
 [{ SYNCHRONIZED } { LEFT
 SYNC } { RIGHT }]
 [{ JUSTIFIED } RIGHT]
 [JUST]
 [BLANK WHEN ZERO]
 [VALUE IS 定数1] .

書き方2

66 データ名1 RENAMES データ名2 [{ THROUGH
 THRU }] データ名3] .

書き方3

88 条件名 { VALUE IS } (定数 [{ THROUGH
 THRU } 定数2]) ...

(7) 通信記述項の一般形式

書き方1

```

CD 通信記述名1 FOR [INITIAL] INPUT
  [ [SYMBOLIC QUEUE IS データ名1]
    [SYMBOLIC SUB-QUEUE-1 IS データ名2]
    [SYMBOLIC SUB-QUEUE-2 IS データ名3]
    [SYMBOLIC SUB-QUEUE-3 IS データ名4]
    [MESSAGE DATE IS データ名5]
    [MESSAGE TIME IS データ名6]
    [SYMBOLIC SOURCE IS データ名7]
    [TEXT LENGTH IS データ名8]
    [END KEY IS データ名9]
    [STATUS KEY IS データ名10]
    [MESSAGE COUNT IS データ名11] ] ]
  [データ名1, データ名2, データ名3, データ名4, データ名5, データ名6,
   データ名7, データ名8, データ名9, データ名10, データ名11]

```

書き方2

```

CD 通信記述名1 FOR OUTPUT
  [DESTINATION COUNT IS データ名1]
  [TEXT LENGTH IS データ名2]
  [STATUS KEY IS データ名3]
  [DESTINATION TABLE OCCURS 整数1 TIMES
   [INDEXED BY {指標名1} ...] ]
  [ERROR KEY IS データ名4]
  [SYMBOLIC DESTINATION IS データ名5] .

```

書き方3

```

CD 通信記述名1 FOR [INITIAL] I-O
  [ [MESSAGE DATE IS データ名1]
    [MESSAGE TIME IS データ名2]
    [SYMBOLIC TERMINAL IS データ名3]
    [TEXT LENGTH IS データ名4]
    [END KEY IS データ名5]
    [STATUS KEY IS データ名6] ] ]
  [データ名1, データ名2, データ名3, データ名4, データ名5, データ名6]

```

(8) 報告書記述項及び報告集団記述項の一般形式

(a) 報告書記述項

```

RD 報告書名1
  [IS GLOBAL]
  [CODE 定数1]
  [ { CONTROL IS {データ名1} ...
    CONTROLS ARE { FINAL [データ名1] ... } } ]
  [PAGE { LIMIT IS } 整数1 { LINE } [HEADING 整数2]
    { LIMITS ARE } { LINES } ]
  [FIRST DETAIL 整数3] [LAST DETAIL 整数4]
  [FOOTING 整数5] ] .

```


(b) 報告集団記述項

書き方1

01 [データ名1]

[LINE NUMBER IS { 整数1 ON NEXT PAGE }]
[NEXT GROUP IS { PLUS 整数2 }]
[NEXT GROUP IS { 整数3 PLUS 整数4 }]
[NEXT PAGE]]

TYPE IS {
{ REPORT HEADING }
{ RH }
{ PAGE HEADING }
{ PH }
{ CONTROL HEADING } { データ名2 }
{ CH } { FINAL }
{ DETAIL }
{ DE }
{ CONTROL FOOTING } { データ名3 }
{ CF } { FINAL }
{ PAGE FOOTING }
{ PF }
{ REPORT FOOTING }
{ RF }
[[USAGE IS] DISPLAY] .

書き方2

レベル番号 [データ名1]

[LINE NUMBER IS { 整数1 [ON NEXT PAGE] }]
[PLUS 整数2]]
[[USAGE IS] DISPLAY] .

書き方3

レベル番号 [データ名1]
 { PICTURE } IS 文字列
 [PIC]
 [[USAGE IS] DISPLAY]
 [[SIGN IS] { LEADING } SEPARATE CHARACTER]
 { TRAILING }
 [{ JUSTIFIED } RIGHT]
 [JUST]
 [BLANK WHEN ZERO]
 [LINE NUMBER IS { 整数1 [ON NEXT PAGE] }]
 { PLUS 整数2 }]
 [COLUMN NUMBER IS 整数3]
 { SOURCE IS 一意名1
 { VALUE IS 定数1
 { SUM {一意名2} ... [UPON {データ名2} ...] } ... }
 [RESET ON { データ名3 }]
 { FINAL }]
 [GROUP INDICATE] .

(9) 手続き部の一般形式

書き方1

[PROCEDURE DIVISION [USING {データ名1} ...] .
 [DECLARATIVES .
 {節名 SECTION [区分番号] .
 USE文
 [段落名.
 [完結文] ... } ... } ...
END DECLARATIVES] .
 {節名 SECTION [区分番号] .
 [段落名.
 [完結文] ... } ... } ...]

書き方2

[PROCEDURE DIVISION [USING {データ名1} ...] .
 {段落名.
 [完結文] ... } ...]

(10) 文の一般形式

ACCEPT 一意名1 [FROM 呼び名1]

ACCEPT 一意名2 FROM {
DATE
DAY
DAY-OF-WEEK
TIME

ACCEPT 通信記述名1 MESSAGE COUNT

ADD {一意名1
定数1} ... TO {一意名2 [ROUNDED]} ...
[ON SIZE ERROR 無条件文1]
[NOT ON SIZE ERROR 無条件文2]
[END-ADD]

ADD {一意名1
定数1} ... TO {一意名2
定数2} GIVING (一意名3 [ROUNDED]) ...
[ON SIZE ERROR 無条件文1]
[NOT ON SIZE ERROR 無条件文2]
[END-ADD]

ADD {CORRESPONDING
CORR} 一意名1 TO 一意名2 [ROUNDED]
[ON SIZE ERROR 無条件文1]
[NOT ON SIZE ERROR 無条件文2]
[END-ADD]

ALTER {手続き名1 TO [PROCEED TO] 手続き名2} ...

CALL {一意名1
定数1} [USING { [BY REFERENCE] (一意名2) ... } ...]
[BY CONTENT (一意名2) ...] ...]
[ON OVERFLOW 無条件文1]
[END-CALL]

CALL {一意名1
定数1} [USING { [BY REFERENCE] (一意名2) ... } ...]
[BY CONTENT (一意名2) ...] ...]
[ON EXCEPTION 無条件文1]
[NOT ON EXCEPTION 無条件文2]
[END-CALL]

CANCEL {一意名1
定数1} ...

CLOSE {ファイル名1 { {REEL} [FOR REMOVAL]
{UNIT}}
WITH {NO REWIND }
{LOCK}} } ...

注：順次、報告書

CLOSE {ファイル名1 [WITH LOCK]} ...

注：相対、索引

COMPUTE {一意名1 [ROUNDED]} ... = 算術式1
[ON SIZE ERROR 無条件文1]
[NOT ON SIZE ERROR 無条件文2]
[END-COMPUTE]

CONTINUE

DELETE ファイル名1 RECORD
[INVALID KEY 無条件文1]
[NOT INVALID KEY 無条件文2]
[END-DELETE]

DISABLE {INPUT [TERMINAL]
I-O TERMINAL } 通信記述名1 [WITH KEY {一意名1
OUTPUT 定数1}]

DISPLAY {一意名1
定数1} ... [UPON 呼び名1] [WITH NO ADVANCING]

DIVIDE {一意名1
定数1} INTO {一意名2 [ROUNDED]} ...
[ON SIZE ERROR 無条件文1]
[NOT ON SIZE ERROR 無条件文2]
[END-DIVIDE]

DIVIDE {一意名1
定数1} INTO {一意名2
定数2} GIVING {一意名3 [ROUNDED]} ...
[ON SIZE ERROR 無条件文1]
[NOT ON SIZE ERROR 無条件文2]
[END-DIVIDE]

DIVIDE {一意名1
定数1} BY {一意名2
定数2} GIVING {一意名3 [ROUNDED]} ...
[ON SIZE ERROR 無条件文1]
[NOT ON SIZE ERROR 無条件文2]
[END-DIVIDE]

DIVIDE {一意名1
定数1} INTO {一意名2
定数2} GIVING 一意名3 [ROUNDED]
REMAINDER 一意名4
[ON SIZE ERROR 無条件文1]
[NOT ON SIZE ERROR 無条件文2]
[END-DIVIDE]

DIVIDE {一意名1
定数1} BY {一意名2
定数2} GIVING 一意名3 [ROUNDED]
REMAINDER 一意名4
[ON SIZE ERROR 無条件文1]
[NOT ON SIZE ERROR 無条件文2]
[END-DIVIDE]

ENABLE { INPUT [TERMINAL] } 通信記述名1 [WITH KEY {一意名1 }]
 { I-O TERMINAL }
 { OUTPUT } 定数1

ENTER 言語名1 [手順名1]

EVALUATE {一意名1 } [ALSO {一意名2 }] ...
 { 定数1 }
 { 式1 }
 { TRUE }
 { FALSE }

{ (WHEN

{ ANY }
 { 条件1 }
 { TRUE }
 { FALSE }
 [NOT] {一意名3 } { THROUGH } {一意名4 }
 { 定数3 } { THRU } { 定数4 }
 { 算術式1 } { 算術式2 }

[ALSO

{ ANY }
 { 条件2 }
 { TRUE }
 { FALSE }
 [NOT] {一意名5 } { THROUGH } {一意名6 }
 { 定数5 } { THRU } { 定数6 }
 { 算術式3 } { 算術式4 }] ... } ...

無条件文1} ...

[WHEN OTHER 無条件文2]

[END-EVALUATE]

EXIT

EXIT PROGRAM

GENERATE {データ名1 }
 { 報告書名1 }

GO TO [手続き名1]

GO TO {手続き名1} ... DEPENDING ON 一意名1

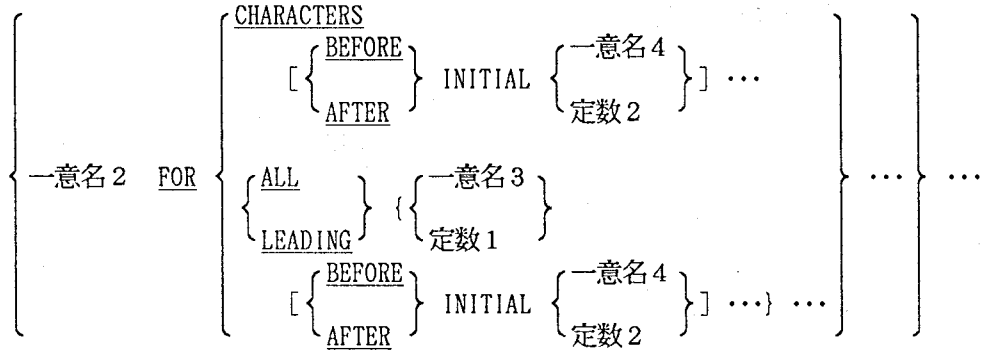
IF 条件1 THEN { {文1} ... } { ELSE {文2} ... [END-IF] }
 { NEXT SENTENCE } { ELSE NEXT SENTENCE }
 { END-IF }

INITIALIZE {一意名1} ...

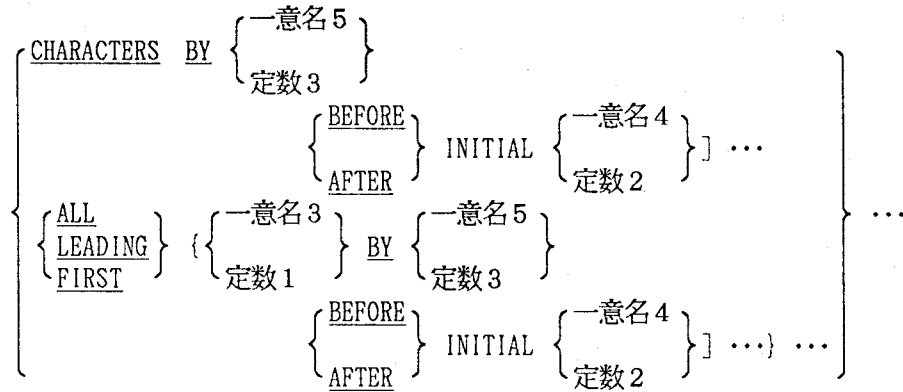
{ REPLACING { ALPHABETIC }
 { ALPHANUMERIC }
 { NUMERIC }
 { ALPHANUMERIC-EDITED }
 { NUMERIC-EDITED } } DATA BY {一意名2 }
 { 定数1 } ... }

INITIATE {報告書名1} ...

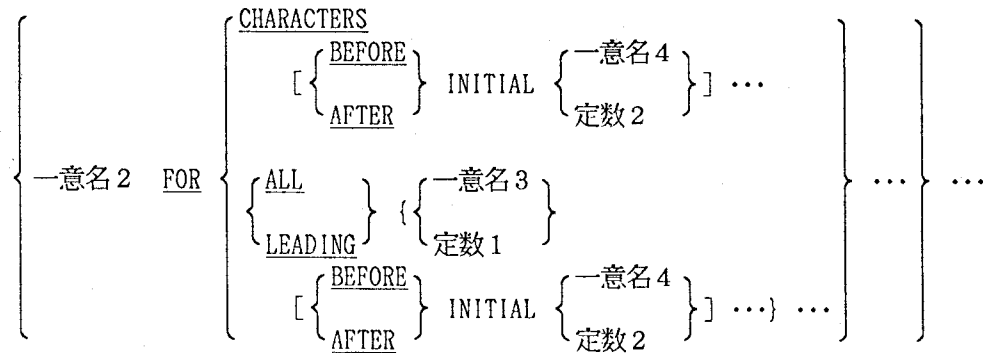
INSPECT 一意名1 TALLYING



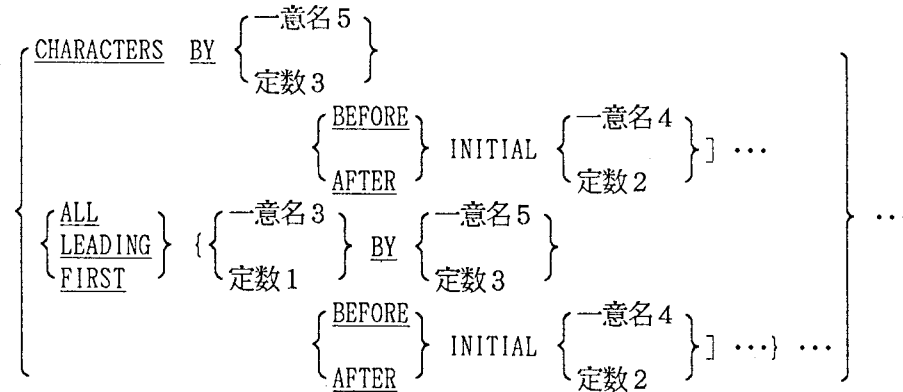
INSPECT 一意名1 REPLACING



INSPECT 一意名1 TALLYING



REPLACING



INSPECT 一意名1 CONVERTING {一意名6
定数4} TO {一意名7
定数5}
[{BEFORE} INITIAL {一意名4
定数2}] ...
[{AFTER}]

MERGE ファイル名1 (ON {ASCENDING
DESCENDING} KEY {データ名1} ...) ...
[COLLATING SEQUENCE IS 符号系名1]

USING ファイル名2 {ファイル名3} ...

{OUTPUT PROCEDURE IS 手続き名1 [{THROUGH
THRU} 手続き名2] }
GIVING {ファイル名4} ...

MOVE {一意名1
定数1} TO {一意名2} ...

MOVE {CORRESPONDING
CORR} 一意名1 TO 一意名2

MULTIPLY {一意名1
定数1} BY {一意名2 [ROUNDED]} ...

[ON SIZE ERROR 無条件文1]

[NOT ON SIZE ERROR 無条件文2]

[END-MULTIPLY]

MULTIPLY {一意名1
定数1} BY {一意名2
定数2} GIVING {一意名3 [ROUNDED]} ...

[ON SIZE ERROR 無条件文1]

[NOT ON SIZE ERROR 無条件文2]

[END-MULTIPLY]

OPEN { INPUT {ファイル名1 { REVERSED } } ... } ...
 { OUTPUT {ファイル名2 [WITH NO REWIND] } ... } ...
 { I-O {ファイル名3} ... } ...
 { EXTEND {ファイル名4} ... } ...

注：順次

OPEN { INPUT {ファイル名1} ... } ...
 { OUTPUT {ファイル名2} ... } ...
 { I-O {ファイル名3} ... } ...
 { EXTEND {ファイル名4} ... } ...

注：相対、索引

OPEN { OUTPUT {ファイル名1 [WITH NO REWIND] } ... } ...
 { EXTEND {ファイル名2} ... } ...

注：報告

PERFORM [手続き名1 [{ THROUGH } 手続き名2]]
 [無条件文1 END-PERFORM]

PERFORM [手続き名1 [{ THROUGH } 手続き名2]]
 { 一意名1 }
 { 整数1 } TIMES [無条件文1 END-PERFORM]

PERFORM [手続き名1 [{ THROUGH } 手続き名2]]
 [WITH TEST { BEFORE }] UNTIL 条件1
 [無条件文1 END-PERFORM]

PERFORM [手続き名1 [{ THROUGH } 手続き名2]]
 [WITH TEST { BEFORE }]
 [無条件文1 END-PERFORM]
 VARYING { 一意名2 } FROM { 一意名3 } BY { 一意名4 } UNTIL 条件1
 { 指標名1 } { 指標名2 } { 定数1 } { 定数2 }
 [AFTER { 一意名5 } FROM { 一意名6 } BY { 一意名7 } UNTIL 条件2] ...
 { 指標名3 } { 指標名4 } { 定数3 } { 定数4 }
 [無条件文1 END-PERFORM]

PURGE 通信記述名1

READ ファイル名1 [NEXT] RECORD [INTO 一意名1]
[AT END 無条件文1]
[NOT AT END 無条件文2]
[END-READ] 注：順次、相対、索引

READ ファイル名1 RECORD [INTO 一意名1]
[INVALID KEY 無条件文3]
[NOT INVALID KEY 無条件文4]
[END-READ] 注：相対

READ ファイル名1 RECORD [INTO 一意名1]
[KEY IS データ名1]
[INVALID KEY 無条件文3]
[NOT INVALID KEY 無条件文4]
[END-READ] 注：索引

RECEIVE 通信記述名1 {MESSAGE} INTO 一意名1
 {SEGMENT}
[NO DATA 無条件文1]
[WITH DATA 無条件文2]
[END-RECEIVE]

RELEASE レコード名1 [FROM 一意名1]

RETURN ファイル名1 RECORD [INTO 一意名1]
AT END 無条件文1
[NOT AT END 無条件文2]
[END-RETURN]

REWRITE レコード名1 [FROM 一意名1]
[END-REWRITE] 注：順次

REWRITE レコード名1 [FROM 一意名1]
[INVALID KEY 無条件文1]
[NOT INVALID KEY 無条件文2]
[END-REWRITE] 注：相対、索引

SEARCH 一意名1 [VARYING {一意名2}]
 {指標名1}]
[AT END 無条件文1]
{WHEN 条件1 {無条件文2}} ...
 {NEXT SENTENCE}]
[END-SEARCH]

SEARCH ALL 一意名1 [AT END 無条件文1]

WHEN { データ名1 { IS EQUAL TO } { 一意名3 }
 { IS = } { 定数1 }
 { 算術式1 } }
 条件名1

[AND { データ名2 { IS EQUAL TO } { 一意名4 }
 { IS = } { 定数2 }
 { 算術式2 } }] ...

 条件名2

 { 無条件文2 }
 { NEXT SENTENCE }
 [END-SEARCH]

SEND 通信記述名1 FROM 一意名1

SEND 通信記述名1 [FROM 一意名1] { WITH 一意名2 }
 { WITH ESI }
 { WITH EMI }
 { WITH EGI }

[{ BEFORE } ADVANCING { { 一意名3 } { LINE }
 { 整数1 } { LINES } }]
 { AFTER }

 { 呼び名1 }
 { PAGE }

[REPLACING LINE]

SET { 指標名1 } ... TO { 指標名2 }
 { 一意名1 } { 一意名2 }
 { 整数1 }

SET { 指標名3 } ... { UP BY } { 一意名3 }
 { DOWN BY } { 整数2 }

SET { { 呼び名1 } ... TO { ON } } ...
 { OFF }

SET { 条件名1 } ... TO TRUE

SORT ファイル名1 {ON {ASCENDING
DESCENDING}} KEY {データ名1} ...} ...
 [WITH DUPLICATES IN ORDER]
 [COLLATING SEQUENCE IS 符号系名1]
 {INPUT PROCEDURE IS 手続き名1 [{THROUGH
THRU } 手続き名2] }
USING {ファイル名2} ... }
 {OUTPUT PROCEDURE IS 手続き名3 [{THROUGH
THRU } 手続き名4] }
GIVING {ファイル名3} ... }

START ファイル名1
 {IS EQUAL TO
IS =
IS GREATER THAN
IS >
 [KEY { データ名1] }
IS NOT LESS THAN
IS NOT <
IS GREATER THAN OR EQUAL TO
IS >= }
 [INVALID KEY 無条件文1]
 [NOT INVALID KEY 無条件文2]
 [END-START]

STOP {RUN
 定数1 }

STRING { {一意名1 } ... DELIMITED BY {一意名2 } ... }
 定数1 }
SIZE
INTO 一意名3
 [WITH POINTER 一意名4]
 [ON OVERFLOW 無条件文1]
 [NOT ON OVERFLOW 無条件文2]
 [END-STRING]

SUBTRACT {一意名1 } ... FROM {一意名2 [ROUNDED] } ... }
 定数1 }
 [ON SIZE ERROR 無条件文1]
 [NOT ON SIZE ERROR 無条件文2]
 [END-SUBTRACT]

SUBTRACT {一意名1 } ... FROM {一意名2 } GIVING {一意名3 [ROUNDED] } ... }
 定数1 }
 定数2 }
 [ON SIZE ERROR 無条件文1]
 [NOT ON SIZE ERROR 無条件文2]
 [END-SUBTRACT]

SUBTRACT { CORRESPONDING } 一意名1 FROM 一意名2 [ROUNDED]
 { CORR }
 [ON SIZE ERROR 無条件文1]
 [NOT ON SIZE ERROR 無条件文2]
 [END-SUBTRACT]

SUPPRESS PRINTING

TERMINATE {報告書名1} ...

UNSTRING 一意名1

[DELIMITED BY [ALL] {一意名2
 定数1} [OR [ALL] {一意名3
 定数2}]] ...]
 INTO {一意名4 [DELIMITER IN 一意名5] [COUNT IN 一意名6]} ...
 [WITH POINTER 一意名7]
 [TALLYING IN 一意名8]
 [ON OVERFLOW 無条件文1]
 [NOT ON OVERFLOW 無条件文2]
 [END-UNSTRING]

USE [GLOBAL] AFTER STANDARD { EXCEPTION }
 { ERROR }
PROCEDURE ON { {ファイル名1} ... }
 { INPUT }
 { OUTPUT }
 { I-O }
 { EXTEND }

注：順次、相対、索引

USE AFTER STANDARD { EXCEPTION }
 { ERROR }
PROCEDURE ON { {ファイル名1} ... }
 { OUTPUT }
 { EXTEND }

注：報告

USE [GLOBAL] BEFORE REPORTING 一意名1

USE FOR DEBUGGING ON { 通信記述名1 }
 { [ALL REFERENCES OF] 一意名1 }
 { ファイル名1 }
 { 手続き名1 }
 { ALL PROCEDURES } ...

WRITE レコード名1 [FROM 一意名1]

注：順次

[{ BEFORE }
AFTER } ADVANCING { { 一意名2 }
整数1 } { LINE
LINES }]
{ 呼び名1 }
PAGE }

[AT { END-OF-PAGE } 無条件文1]
EOP

[NOT AT { END-OF-PAGE } 無条件文2]
EOP

[END-WRITE]

WRITE レコード名1 [FROM 一意名1]

注：相対、索引

[INVALID KEY 無条件文1]

[NOT INVALID KEY 無条件文2]

[END-WRITE]

(1 1) COPY文及びREPLACE文の一般形式

COPY 原文名 1 [{ OF } 登録集名 1]
 [REPLACING { { ==仮原文 1 == } 一意名 1 } 定数 1 語 1 } BY { { ==仮原文 2 == } 一意名 2 } 定数 2 語 2 } ...]

REPLACING { ==仮原文 1 == BY ==仮原文 2 == } ...

REPLACE OFF

(1 2) 条件の一般形式

(a) 比較条件

{ 一意名 1 } { 定数 1 } { 算術式 1 } { 指標名 1 }	{ IS [NOT] GREATER THAN IS [NOT] > IS [NOT] LESS THAN IS [NOT] < IS [NOT] EQUAL TO IS [NOT] = IS GREATER THAN OR EQUAL TO IS >= IS LESS THAN OR EQUAL TO IS <= }	{ 一意名 2 } { 定数 2 } { 算術式 2 } { 指標名 2 }
---	---	---

(b) 字類条件

一意名 1 IS [NOT] { NUMERIC
 ALPHABETIC
 ALPHABETIC-LOWER
 ALPHABETIC-UPPER }
 字類名 1

(c) 条件名条件

条件名 1

(d) スイッチ状態条件

条件名 1

(e) 正負条件

算術式 1 IS [NOT] { POSITIVE
 NEGATIVE }
 ZERO

(f) 否定条件

NOT 条件 1

(g) 組合せ条件

$$\text{条件1} \left\{ \begin{array}{c} \text{AND} \\ \text{OR} \end{array} \right\} \text{条件2} \dots$$

(h) 略記組合せ比較条件

$$\text{比較条件} \left\{ \begin{array}{c} \text{AND} \\ \text{OR} \end{array} \right\} [\text{NOT}] [\text{比較演算子}] \text{右辺} \dots$$

(13) 修飾の一般形式

書き方1

$$\left. \begin{array}{l} \text{データ名1} \\ \text{条件名1} \end{array} \right\} \left\{ \begin{array}{l} \left\{ \begin{array}{c} \text{IN} \\ \text{OF} \end{array} \right\} \text{データ名2} \dots \left[\left\{ \begin{array}{c} \text{IN} \\ \text{OF} \end{array} \right\} \left\{ \begin{array}{l} \text{ファイル名1} \\ \text{通信記述名1} \end{array} \right\} \right] \\ \left\{ \begin{array}{c} \text{IN} \\ \text{OF} \end{array} \right\} \left\{ \begin{array}{l} \text{ファイル名1} \\ \text{通信記述名} \end{array} \right\} \end{array} \right\}$$

書き方2

$$\text{段落名1} \left\{ \begin{array}{c} \text{IN} \\ \text{OF} \end{array} \right\} \text{節名1}$$

書き方3

$$\text{原文名1} \left\{ \begin{array}{c} \text{IN} \\ \text{OF} \end{array} \right\} \text{登録集名1}$$

書き方4

$$\text{LINAGE-COUNTER} \left\{ \begin{array}{c} \text{IN} \\ \text{OF} \end{array} \right\} \text{ファイル名2}$$

書き方5

$$\left\{ \begin{array}{l} \text{PAGE-COUNTER} \\ \text{LINE-COUNTER} \end{array} \right\} \left\{ \begin{array}{c} \text{IN} \\ \text{OF} \end{array} \right\} \text{報告書名1}$$

書き方6

$$\text{データ名3} \left\{ \begin{array}{l} \left\{ \begin{array}{c} \text{IN} \\ \text{OF} \end{array} \right\} \text{データ名2} \left[\left\{ \begin{array}{c} \text{IN} \\ \text{OF} \end{array} \right\} \text{報告書名2} \right] \\ \left\{ \begin{array}{c} \text{IN} \\ \text{OF} \end{array} \right\} \text{報告書名2} \end{array} \right\}$$

(14) 種々の書き方

(a) 添字付け

$$\left. \begin{array}{l} \text{条件名1} \\ \text{データ名1} \end{array} \right\} \left(\left. \begin{array}{l} \text{ALL} \\ \text{整数1} \\ \text{データ名2} \left[\left\{ \begin{array}{l} + \\ - \end{array} \right\} \right] \text{整数2} \\ \text{指標名1} \left[\left\{ \begin{array}{l} + \\ - \end{array} \right\} \right] \text{整数3} \end{array} \right\} \dots \right)$$

関数一意名:

FUNCTION 関数名1 [({引数1} ...)] [部分参照子]

(b) 部分参照

$$\left. \begin{array}{l} \text{データ名1} \\ \text{FUNCTION 関数名1} \left[\left(\left\{ \text{引数1} \right\} \dots \right) \right] \end{array} \right\} \text{(最左端文字位置: [長さ])}$$

(c) 一意名

書き方1:
関数一意名1

書き方2:

データ名1 $\left[\left\{ \begin{array}{l} \text{IN} \\ \text{OF} \end{array} \right\} \right]$ データ名2] ... $\left[\left\{ \begin{array}{l} \text{IN} \\ \text{OF} \end{array} \right\} \right]$ $\left\{ \begin{array}{l} \text{通信記述名1} \\ \text{ファイル名1} \\ \text{報告書名1} \end{array} \right\}$]
[({添字} ...)] [部分参照子]

〈15〉 組込み関数の一般形式

FUNCTION ACOS (引数1)
FUNCTION ANNUITY (引数1 引数2)
FUNCTION ASIN (引数1)
FUNCTION ATAN (引数1)
FUNCTION CHAR (引数1)
FUNCTION COS (引数1)
FUNCTION CURRENT-DATE
FUNCTION DATE-OF-INTEG (引数1)
FUNCTION DAY-OF-INTEG (引数1)
FUNCTION FACTORIAL (引数1)
FUNCTION INTEGER (引数1)
FUNCTION INTEGER-OF-DATE (引数1)
FUNCTION INTEGER-OF-DAY (引数1)
FUNCTION INTEGER-PART (引数1)
FUNCTION LENGTH (引数1)
FUNCTION LOG (引数1)
FUNCTION LOG10 (引数1)
FUNCTION LOWER-CASE (引数1)
FUNCTION MAX ({引数1} ...)
FUNCTION MEAN ({引数1} ...)
FUNCTION MEDIAN ({引数1} ...)
FUNCTION MIDRANGE ({引数1} ...)
FUNCTION MIN ({引数1} ...)
FUNCTION MOD (引数1 引数2)
FUNCTION NUMVAL (引数1)
FUNCTION NUMVAL-C (引数1 [引数2])
FUNCTION ORD (引数1)
FUNCTION ORD-MAX ({引数1} ...)
FUNCTION ORD-MIN ({引数1} ...)
FUNCTION PRESENT-VALUE (引数1 {引数2} ...)
FUNCTION RANDOM [(引数1)]
FUNCTION RANGE ({引数1} ...)
FUNCTION REM (引数1 引数2)
FUNCTION REVERSE (引数1)
FUNCTION SIN (引数1)
FUNCTION SQRT (引数1)
FUNCTION STANDARD-DEVIATION ({引数1} ...)
FUNCTION SUM ({引数1} ...)
FUNCTION TAN (引数1)
FUNCTION UPPER-CASE (引数1)
FUNCTION VARIANCE ({引数1} ...)
FUNCTION WHEN-COMPILED

(16) 入れ子の原始プログラムの一般形式

(a) 最も外側のプログラム

```
IDENTIFICATION DIVISION.  
PROGRAM-ID. プログラム名1 [IS INITIAL PROGRAM] .  
[ENVIRONMENT DIVISION. 環境部の内容]  
[DATA DIVISION. データ部の内容]  
[PROCEDURE DIVISION. 手続き部の内容]  
[ [入れ子の原始プログラム] ...  
END PROGRAM プログラム名1.]
```

(b) 入れ子の原始プログラム

```
IDENTIFICATION DIVISION.  
PROGRAM-ID. プログラム名2 [IS { | COMMON | } PROGRAM] .  
[ENVIRONMENT DIVISION. 環境部の内容]  
[DATA DIVISION. データ部の内容]  
[PROCEDURE DIVISION. 手続き部の内容]  
[入れ子の原始プログラム] ...  
END PROGRAM プログラム名2.
```

(17) 一連の原始プログラムの一般形式

```
{ IDENTIFICATION DIVISION.  
PROGRAM-ID. プログラム名3 [IS INITIAL PROGRAM] .  
[ENVIRONMENT DIVISION. 環境部の内容]  
[DATA DIVISION. データ部の内容]  
[PROCEDURE DIVISION. 手続き部の内容]  
[入れ子の原始プログラム] ...  
END PROGRAM プログラム名3. } ...  
IDENTIFICATION DIVISION.  
PROGRAM-ID. プログラム名4 [IS INITIAL PROGRAM] .  
[ENVIRONMENT DIVISION. 環境部の内容]  
[DATA DIVISION. データ部の内容]  
[PROCEDURE DIVISION. 手続き部の内容]  
[ [入れ子の原始プログラム] ...  
END PROGRAM プログラム名4.]
```

参考文献の一覧

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