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Automatic program generating apparatus

The present invention relates to an automatic program generating apparatus for automatically generating a source code program without mastering a program language in program generation.

5 Conventionally, when a program is ordered to a software vendor, a customer explains the job contents to a sales engineer and requests necessary processing contents. The sales engineer explains the processing contents to a system engineer. The system engineer
10 defines program conditions for the processing contents and performs basic and detailed designs. A programmer performs coding based on the detailed design.

As described above, the process required until a source code program is generated is classified into (1)
15 a step of transmitting the processing contents from the customer to the sales engineer, (2) a step of transmitting the processing contents from the sales engineer to the system engineer, performing the basic design, and then designing the detailed portions of the
20 program based on the basic design, and (3) a step of causing the program to perform final coding. If an error (e.g., an item omission) in transmission contents is present in steps (2) and (3), although no error is present in step (1), it is difficult to find out such
25 an error due to the following reason. Since transmission of the detailed contents from the system

engineer to the program becomes time-consuming and cumbersome, the system engineer transmits only the desired conditions to the programmer. Upon reception of the desired conditions, the programmer performs coding in accordance with his/her own decision. In this case, the resultant program itself may provide a layout, prints, image display contents, all of which are different from the expected ones.

As described above, a large number of steps are required in a conventional program generating process, errors tend to occur, and time-consuming operations are required.

It is an object of the present invention to provide an automatic program generating apparatus capable of forming a program generating process as a plant-like process to uniformly generate an accurate, error-free program in accordance with an industrial technique, and allowing simple operations in the design process to shorten the program generating time.

In order to achieve the above object of the present invention, there is provided an automatic program generating apparatus comprising storage means for storing a plurality of skeletons each having a format constituted by instruction data of fixed process items for regular job contents, means for reading out a skeleton of a designated format, means for requesting to input predetermined instruction words in undefined instruction areas of the readout skeleton in a predetermined order, and program coding means for determining that necessary instruction data are input to all the undefined instruction areas of the readout skeleton and coding a resultant structure to generate a program.

According to the above means, when variable instruction words serving as undefined instruction portions are input to the skeleton (permanent instruction group) having a format satisfying the needs of the customer, a detailed program with accurate coding can be

automatically generated.

This invention can be more fully understood from the following detailed description when taken in conjunction with the accompanying drawings, in which:

5 FIG. 1 is a block diagram showing the basic arrangement of an embodiment according to the present invention;

FIG. 2 is a view for explaining a system function in FIG. 1;

10 FIGS. 3A to 3C are views for explaining an application of an apparatus according to the present invention;

FIG. 4 is a view for explaining a skeleton applied to the apparatus according to the present invention;

15 FIG. 5 is a flow chart for explaining an operation of the apparatus according to the present invention;

FIG. 6 is a view showing part of another skeleton used in the apparatus according to the present invention;

20 FIG. 7 is a view showing the remaining part of the skeleton shown in FIG. 6;

FIG. 8 is a view showing part of still another skeleton used in the apparatus according to the present invention;

25 FIG. 9 is a view showing part of still another skeleton used in the apparatus according to the present invention;

FIG. 10 is a view showing the remaining part of the skeleton shown in FIG. 9;

30 FIG. 11 is a view showing part of still another skeleton used in the apparatus according to the present invention;

FIG. 12 is a view showing the remaining part of the skeleton shown in FIG. 11;

35 FIG. 13 is a view showing part of still another skeleton used in the apparatus according to the present invention;

FIG. 14 is a view showing the remaining part of the

skeleton shown in FIG. 13;

FIG. 15 is a view showing part of still another skeleton used in the apparatus according to the present invention;

5 FIG. 16 is a view showing the remaining part of the skeleton shown in FIG. 15;

FIG. 17 is a view showing part of still another skeleton used in the apparatus according to the present invention;

10 FIG. 18 is a view showing the remaining part of the skeleton shown in FIG. 17;

FIG. 19 is a view showing part of still another skeleton used in the apparatus according to the present invention;

15 FIG. 20 is a view showing the remaining part of the skeleton shown in FIG. 19;

FIG. 21 is a view showing part of still another skeleton used in the apparatus according to the present invention;

20 FIG. 22 is a view showing the remaining part of the skeleton shown in FIG. 21;

FIG. 23 is a view showing part of still another skeleton used in the apparatus according to the present invention;

25 FIG. 24 is a view showing the remaining part of the skeleton shown in FIG. 23;

FIG. 25 is a view showing part of still another skeleton used in the apparatus according to the present invention;

30 FIG. 26 is a view showing the remaining part of the skeleton shown in FIG. 25;

FIG. 27 is a view showing part of still another skeleton used in the apparatus according to the present invention;

35 FIG. 28 is a view showing the remaining part of the skeleton shown in FIG. 27;

FIG. 29 is a view showing part of still another

skeleton used in the apparatus according to the present invention;

FIG. 30 is a view showing the remaining part of the skeleton shown in FIG. 29;

5 FIG. 31 is a view showing part of still another skeleton used in the apparatus according to the present invention;

FIG. 32 is a view showing the remaining part of the skeleton shown in FIG. 31;

10 FIG. 33 is a view showing part of still another skeleton used in the apparatus according to the present invention;

FIG. 34 is a view showing the remaining part of the skeleton shown in FIG. 33;

15 FIG. 35 is a view showing part of still another skeleton used in the apparatus according to the present invention;

FIG. 36 is a view showing the remaining part of the skeleton shown in FIG. 35;

20 FIG. 37 is a view showing part of still another skeleton used in the apparatus according to the present invention;

FIG. 38 is a view showing the remaining part of the skeleton shown in FIG. 37;

25 FIG. 39 is a view showing part of still another skeleton used in the apparatus according to the present invention;

FIG. 40 is a view showing the remaining part of the skeleton shown in FIG. 39;

30 FIG. 41 is a view showing part of still another skeleton used in the apparatus according to the present invention;

FIG. 42 is a view showing the remaining part of the skeleton shown in FIG. 41;

35 FIG. 43 is a view showing part of still another skeleton used in the apparatus according to the present invention;

FIG. 44 is a view showing the remaining part of the skeleton shown in FIG. 43;

5 FIG. 45 is a view showing part of still another skeleton used in the apparatus according to the present invention;

FIG. 46 is a view showing the remaining part of the skeleton shown in FIG. 45;

10 FIG. 47 is a view showing part of still another skeleton used in the apparatus according to the present invention;

FIG. 48 is a view showing the remaining part of the skeleton shown in FIG. 47;

15 FIG. 49 is a view showing part of still another skeleton used in the apparatus according to the present invention;

FIG. 50 is a view showing the remaining part of the skeleton shown in FIG. 49;

20 FIG. 51 is a view showing part of still another skeleton used in the apparatus according to the present invention;

FIG. 52 is a view showing the remaining part of the skeleton shown in FIG. 51;

25 FIG. 53 is a view showing part of still another skeleton used in the apparatus according to the present invention;

FIG. 54 is a view showing the remaining part of the skeleton shown in FIG. 53;

30 FIG. 55 is a view showing part of still another skeleton used in the apparatus according to the present invention;

FIG. 56 is a view showing the remaining part of the skeleton shown in FIG. 55;

35 FIG. 57 is a view showing part of still another skeleton used in the apparatus according to the present invention;

FIG. 58 is a view showing the remaining part of the skeleton shown in FIG. 57;

FIG. 59 is a view showing part of still another skeleton used in the apparatus according to the present invention;

5 FIG. 60 is a view showing the remaining part of the skeleton shown in FIG. 59;

FIG. 61 is a view showing part of still another skeleton used in the apparatus according to the present invention; and

10 FIG. 62 is a view showing the remaining part of the skeleton shown in FIG. 61.

A preferred embodiment of the present invention will be described below with reference to the accompanying drawings.

15 FIG. 1 shows the basic arrangement of the overall apparatus according to an embodiment of the present invention. A workstation 200 serving as an operation unit, a skeleton file 300, and a selection file 400 are arranged centered on a program generating section 100. A program generated using a program language in the
20 program generating section 100 is coded using an automatic coding section 500, thereby obtaining a machine language program using source codes.

The respective sections will be described below.

25 Different types of skeletons having predetermined formats and consisting of permanent instruction data corresponding to job contents are stored in correspondence with the job contents in the skeleton file 300. That is, each skeleton is a framework for generating one job program. Each skeleton consists of a step area for
30 instructions whose data processing steps are predetermined and a step area for undefined instructions. The skeleton language is, e.g., the RPG language. When a command for reading out a skeleton manu is input at the workstation 200, a display 201 in the workstation 200
35 displays a skeleton group menu. When a desired skeleton ID is designated, the program generating section 100 reads out the designated skeleton from the skeleton file

300, and the readout skeleton is stored in a work memory.

FIG. 2 shows all steps 11 of a given program X. Steps 12 surrounded by a chain line in FIG. 2 constitute a portion as a skeleton for performing a predetermined process.

A program using this skeleton 12 is unfinished, so that instruction data are filled in the undefined portions. For this purpose, the program generating section 100 requests an operator to input instruction data to the undefined portions in accordance with a predetermined order through the workstation 200. The operator 200 does not input data using a program language, but inputs data as words classified and arranged in this system using key operations. The program generating section 100 determines the input words, reads out the corresponding instruction program words (RPG) from the selection file 400, and stores the readout words in the undefined areas of the skeleton.

The selection file 400 has an internal component file 401 and a variable item file 402 because a predetermined routine may be used even in an undefined portion. The internal component file 401 stores, for example, a process for limiting the number of display characters on a screen in character display, a process for converting date data into data of the dominical year or the name of era, and the like. The variable item file 402 stores designation data for a screen layout, a slip layout, input check specifications, file update specifications, and the like.

When a variable item program is filled in one undefined area, the program generating section 100 requests the operator to fill a variable item program in the next undefined area in accordance with a predetermined priority order. In this case, the program generating section 100 sends a request upon displaying a worksheet screen having empty areas to be designated.

FIGS. 3A to 3C show a program for filing data simply input from a keyboard in a predetermined format. As shown in FIG. 3A, in a basic design, an input frame is displayed on the screen to facilitate a data input operation (step A1). A key input process (step A2) and then transfer and write operations (step A3) are performed in an order named.

More specifically, as shown in Fig. 3B, frame display data is read out from a predetermined memory address and transferred to a display memory (step B1). Cursor data is then generated and transferred to the display memory (step B2). A key input is checked (step B3). The key input is transferred to a buffer and the display memory (step B4). A cursor process is performed to move the cursor to the next write position (step B5). A process for determining whether a digit position count exceeds a predetermined count (step B7) is required.

In this program generation, predetermined steps (skeleton 20) are surrounded by a dotted line in FIG. 3B. Other steps constitute a variable portion which can be changed in accordance with the needs of the user. If a frame shown in FIG. 3C is requested as a data input frame by the user, a frame pattern must be designated in step B1. By this designation, a data write area assured in the display memory is set (step B4). A parameter for a comparison process for determining whether the digit position count exceeds the digit position count per line (step B7) is also determined.

In the cursor generating process (step B2), the cursor data may be fixed if there is a program for searching a non-recorded portion in a frame to transfer the cursor data to a position having a minimum digit position count and a minimum line count. Even in a one-line confirmation button process (step S6), coding may be fixed such that a line return process is initiated when depression of a confirmation button is confirmed;

otherwise, the flow advances to step B7.

When this skeleton 20 is designated, a prompt for requesting data inputs for designing a frame is displayed on the workstation 200. This request includes data of a digit position count, a lateral block count, and a vertical line count. When all the requested data are filled, the program generating section 100 displays a message representing the end of input, and the coding process is performed.

The frame, data input states, input data request messages, and a keyword to be input, and the like are displayed on the screen. For this reason, the user can select the keyword to input numerical values and characters, thereby facilitating program creation.

The above example is very simple and represents program generation of only a main part. However, in actual coding, more minute steps are required.

The number of steps of each skeleton itself is very large. In the above system, a plurality of skeletons are stored in the skeleton file 300.

In the above description, FIG. 2 shows all the steps 11 of the given program X, and a portion surrounded by the chain line in FIG. 2 is defined as the skeleton, as described above. However, in storage of this skeleton data in the skeleton file, the assurance of the area for the undefined portions 13 wastes the storage capacity. That is, the capacity of the skeleton file 300 is wasted.

As shown in FIG. 4, in this system, flags representing the undefined portions 13 are inserted in correspondence with these undefined portions to reduce the capacity of the undefined portions 13. For this reason, even if a skeleton has a large number of variable portions and a very large undefined portion, it can be compressed and stored in a small capacity in the skeleton file 300.

When the skeleton is read out from the program

generating section 100 to fill the flag portions with external inputs during program creation, the resultant program has a prescribed length.

5 When the skeleton is loaded in the work memory, the program generating section 100 has a function of searching the flags in an order of program steps. When each flag is detected, data to be input is requested to the workstation 200 in accordance with this flag number. The program generating section 100 also has a function
10 of determining whether a jump instruction is present in the skeleton or added steps to manage and correct the address (step number) of the jump instruction. When the undefined portions of the skeleton are filled with the external data, the jump address (step) changes, and this
15 change is corrected finally by the function of the program generating section 100.

FIG. 5 is a flow chart exemplifying this operation.

The flow starts in step C1 to load the readout skeleton in the program generating section (builder) 100
20 from the skeleton file 300. The program generating section 100 increments the address to confirm program data upon sequential reading the skeleton steps (steps C2 and C3). The program generating section 100 determines whether program end data is present (step C4). If NO in
25 step C4, the program generating section 100 determines whether a flag is present (step C5). If a flag is found, program data corresponding to this flag is read, and data to be input is requested to the workstation 200 (step C6). The request form is of a worksheet type.
30 This is a fixed format corresponding to a request content. The user can fill only requested variable items (numerical values and symbols) in the predetermined portions of the worksheet displayed on the workstation. If all the request items are satisfied, no omissions occur
35 in conditions and the like. That is, coding does not vary depending on programmers, but can be uniformly performed.

When the data input is completed, and a key input representing the end of input is detected (step C7), the step addresses of the subsequent skeletons are corrected in accordance with the decrease/increase in the number of steps specified by the user in the next step (step C8). The subsequent step addresses of the skeleton may be increased by the variable items, or an unnecessary routine may be partially deleted or decreased. The unnecessary routine can be selectively deleted in accordance with the requested items stored at the program data addresses of the flags.

A step address management map for sequentially managing the original skeleton step (address) and all the steps (addresses) of the instruction words upon partial correction of the skeleton is created in step C8. In this manner, when the flag portions are filled with the external data, and program end data is detected, the flow advances to step C9 to return to the initial step of the created program. The address is then incremented to advance the step to determine whether a jump instruction is present in this position (steps C10 and C12). If a jump instruction is detected, the jump destination address represented by this instruction must be corrected. The step address management map which has already managed the addresses is accessed to detect a specific address to which the jump destination address is to be changed, thereby correcting the jump destination address to a new jump destination address (step C13). In this manner, the jump destination addresses are sequentially corrected. When the program end data is detected, this data input process is ended (steps C14 and C15).

The system described above compresses and stores the skeleton steps to reduce the capacity for storing the skeleton. When variable items and component items are added to the flag portions, the jump destination addresses of the jump instructions are changed, so that

the system has a jump destination address correction function.

FIGS. 6 and 7 show ordinary words obtained by partially converting a skeleton used to generate, e.g., a client master file program. The steps (addresses) of the skeleton are located at the left end, and variable items and components are input to the flag positions (undefined areas).

FIG. 8 shows ordinary words obtained by partially converting a program obtained such that variable items and components are inserted in the flag positions of the skeleton and the resultant structure is coded. Steps 1.00 to 29.00 and 33.00 to 35.00 at the left end are steps automatically generated using the variable items. Steps 30.00 to 32.00 and 40.00 to 43.00 are steps automatically generated using the components. Steps 36.00 to 39.00 and 44.00 to 60.00 are steps originally present in the skeleton.

Various skeletons are illustrated from FIG. 9. FIGS. 9 and 10 show part of a batch update skeleton. FIGS. 11 and 12 also show part of a batch update skeleton. FIGS. 13 and 14 also show part of another skeleton. Each pair of drawings in FIGS. 15 to 62 show part of one skeleton.

As has been described above, according to the present invention, a program generating process can be a plant-like process. An accurate, error-free program can be uniformly generated in accordance with an industrial technique. In addition, the design steps are simple jobs to shorten the program generation time.



Claims:

1. An automatic program generating apparatus characterized by comprising:

storage means (300) for storing a plurality of skeletons each having a format constituted by instruction data of fixed process items for regular job contents;

means (100) for reading out a skeleton of a designated format;

means (100) for requesting to input predetermined instruction words in undefined instruction areas of the readout skeleton in a predetermined order; and

program coding means (100, 500) for determining that necessary instruction data are input to all the undefined instruction areas of the readout skeleton and coding a resultant structure to generate a program.

2. An apparatus according to claim 1, characterized in that the plurality of skeleton are stored in said storage means such that addresses of portions corresponding to the undefined areas are compacted to effectively utilize a capacity of said storage means.

3. An apparatus according to claim 1, characterized by further comprising means for correcting a jump destination address of a jump instruction when the jump instruction is present in the fixed process items in a state wherein the instruction words are inserted in the undefined areas of the skeleton.

4. An apparatus according to claim 1, characterized in that said program coding means further comprises means for reading coded program data upon program coding, inversely converting the read coded program data, and automatically generating a program document representing a structure and procedures of the program.

5. An automatic program generating apparatus characterized by comprising:





storage means (300) for storing a plurality of skeletons, each of the plurality of skeletons serving as a framework for generating a program and having a step area for instructions whose data process procedures are predetermined and a step area for undefined instructions;

display means (200) for displaying characters representing job contents corresponding to the plurality of skeletons stored in said storage means;

selecting means (200) for inputting an identification code of a job content displayed on said display means from a keyboard;

readout means (200, 100) for reading out any one of the plurality of skeletons in response to the identification code input from said selecting means, the readout skeleton waiting in a program generating section;

input request means (100) for displaying and requesting, through said display means, instruction data which is to be set in the step area for the undefined instructions and included in the skeleton waiting in said program generating section; and

automatic coding means (100, 500) for converting a program into a machine language after the step area for the undefined instructions of the waiting skeleton is filled with the instruction data.

6. An apparatus according to claim 5, characterized in that said input request means comprises:

means (C1 - C5) for sequentially checking program steps of the waiting skeleton to detect whether a flag is present in the program steps;

means (C6) for causing said display means to display an instruction data input request when the flag is detected; and

means (C8) for correcting step addresses of the waiting skeleton in accordance with a change in a number of steps when the instruction data is input in response





to the input request.

7. An apparatus according to claim 6, characterized by further comprising:

5 means (C8) for creating an address map representing a correspondence between the step addresses of the waiting skeleton before correction and those after the correction when the step addresses of the waiting skeleton are corrected;

10 means (C4) for detecting a program end instruction of the waiting skeleton;

means (C12) for detecting whether a jump instruction is present in the steps of the waiting skeleton after the program end instruction is detected; and

15 means (C13) for correcting a jump destination address designated by the jump instruction with reference to the address map when the jump instruction is present.





Abstract: (FIG. 1)

"AUTOMATIC PROGRAM GENERATING APPARATUS"

A program generating process is a plant-like process to uniformly generate an accurate, error-free program in accordance with an industrial technique, and a design process requires simple jobs to shorten the program generation time. A skeleton file (300) stores skeletons having predetermined formats and constituted by instruction data of fixed process items in regular job contents so as to correspond to different types of job contents. A program generating section (100) includes a unit for reading out a skeleton of a designated format from a workstation (200), a unit for requesting to input predetermined instruction words in undefined instruction areas of the readout skeleton through a display unit in a predetermined order, and a program coding unit for determining that necessary instruction data are input to all the undefined instruction areas of the readout skeleton and causing an automatic coding section (500) to code the resultant structure to obtain a program.

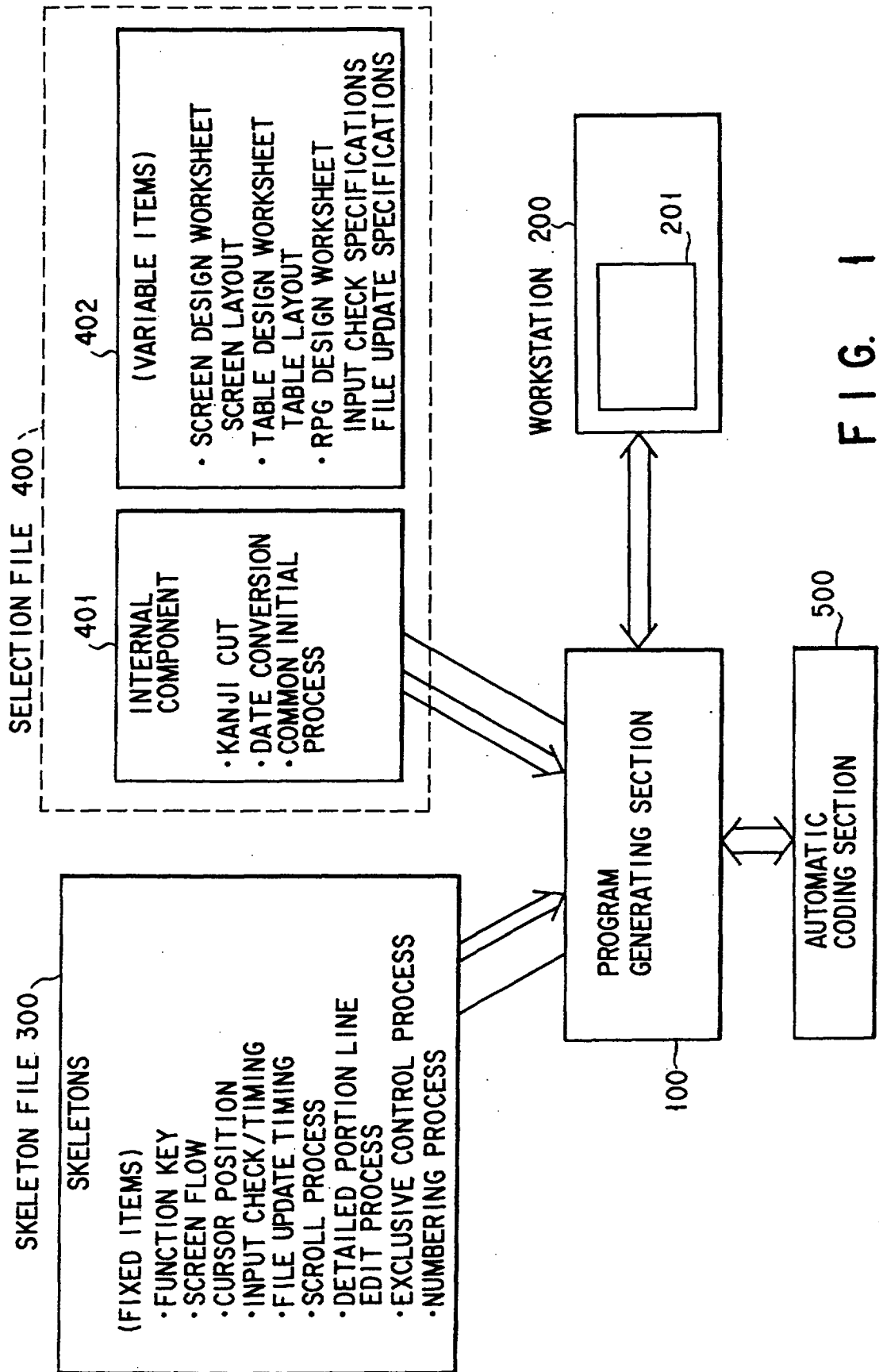


FIG. 1

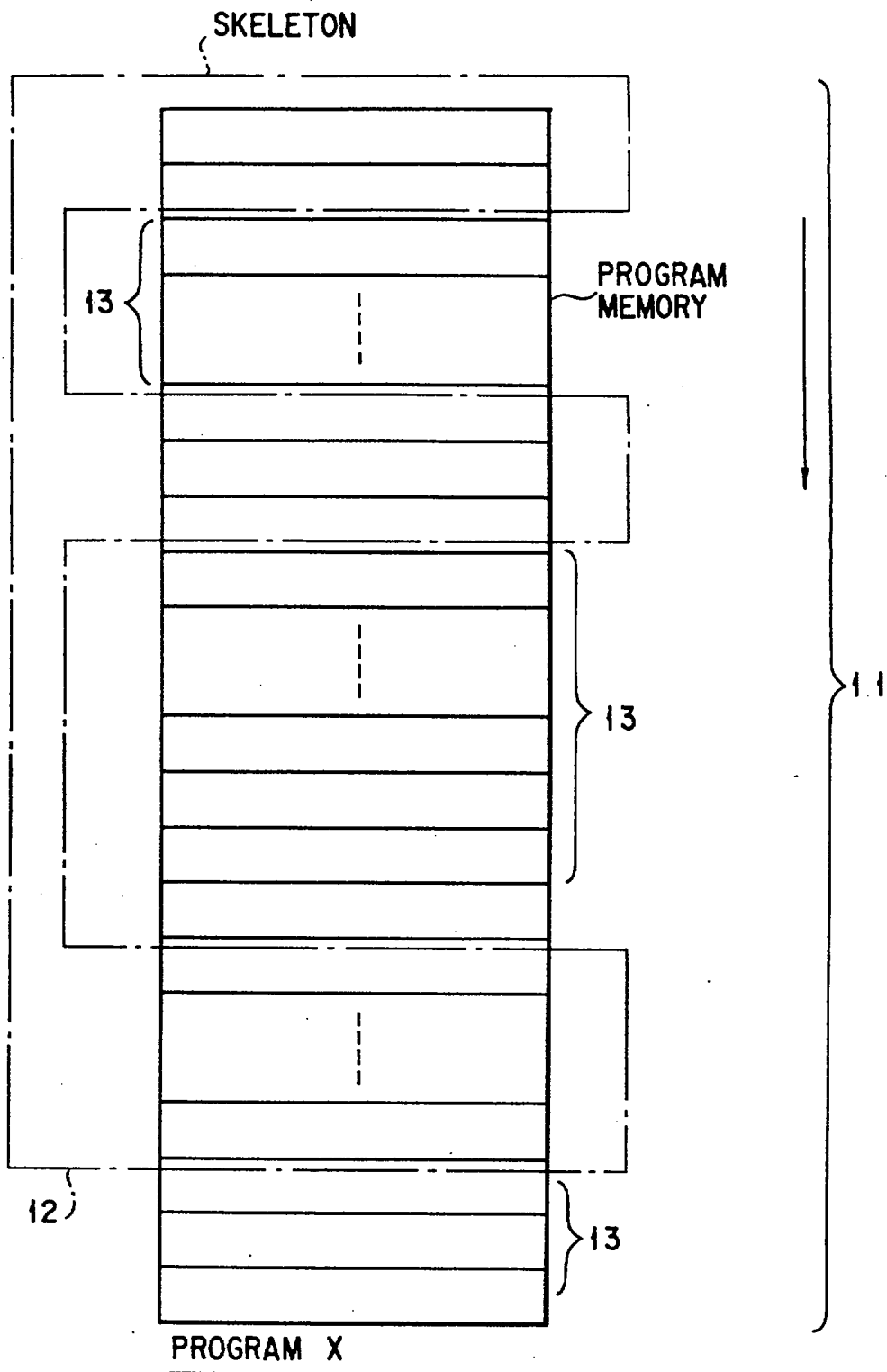


FIG. 2

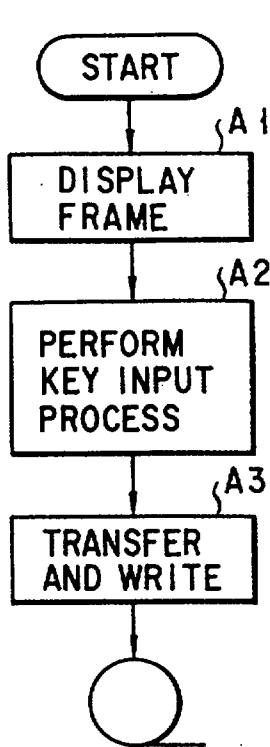


FIG. 3A

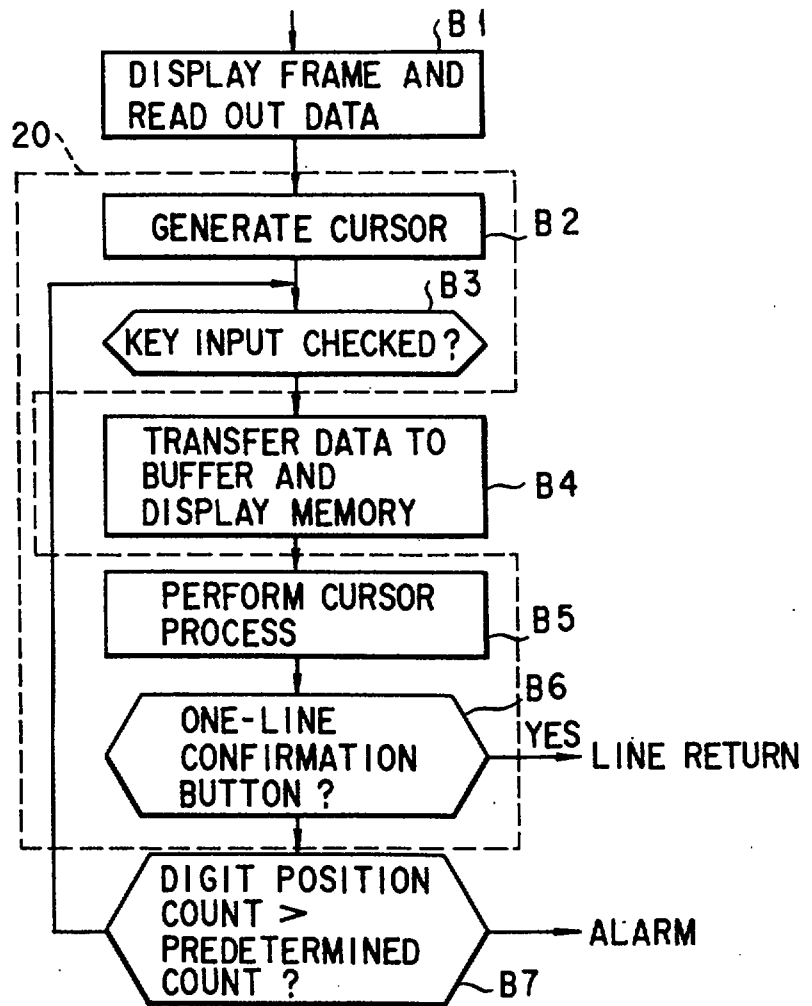


FIG. 3B

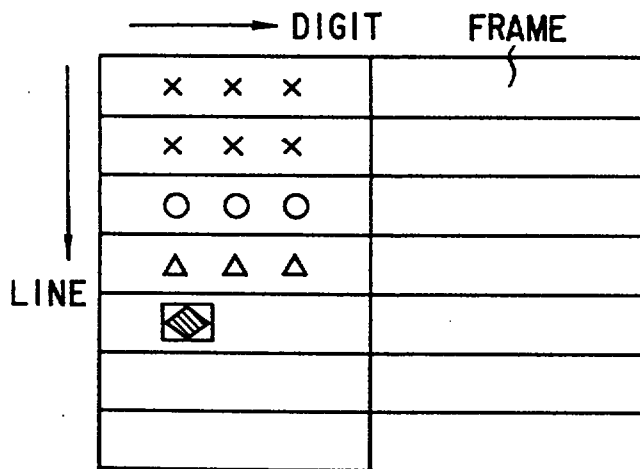


FIG. 3C

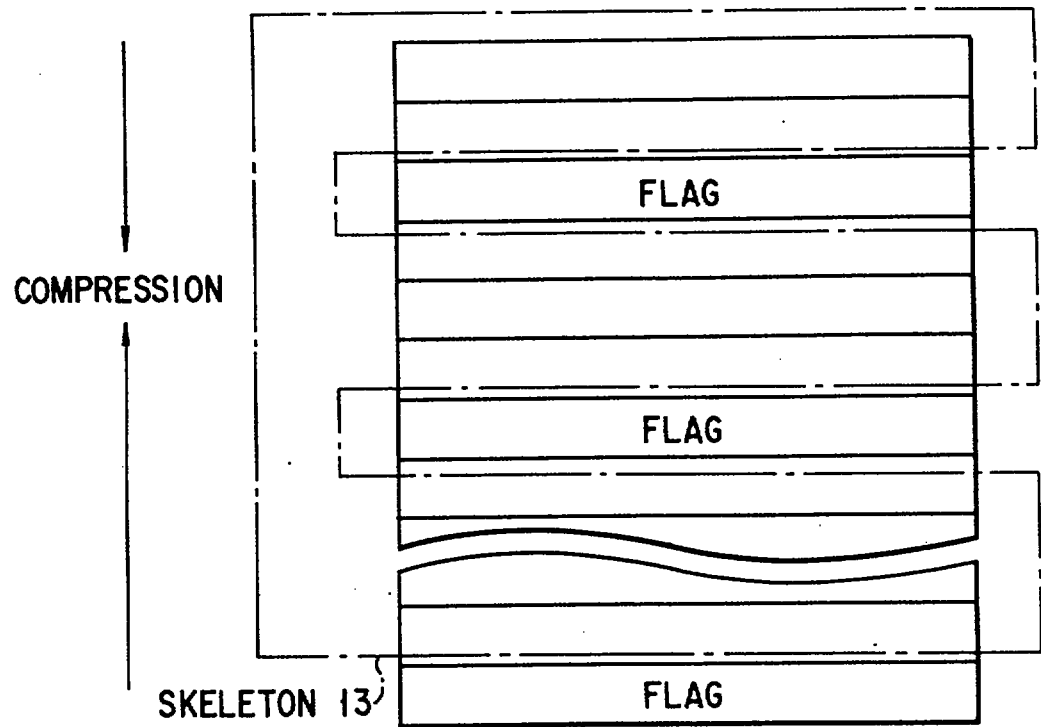


FIG. 4

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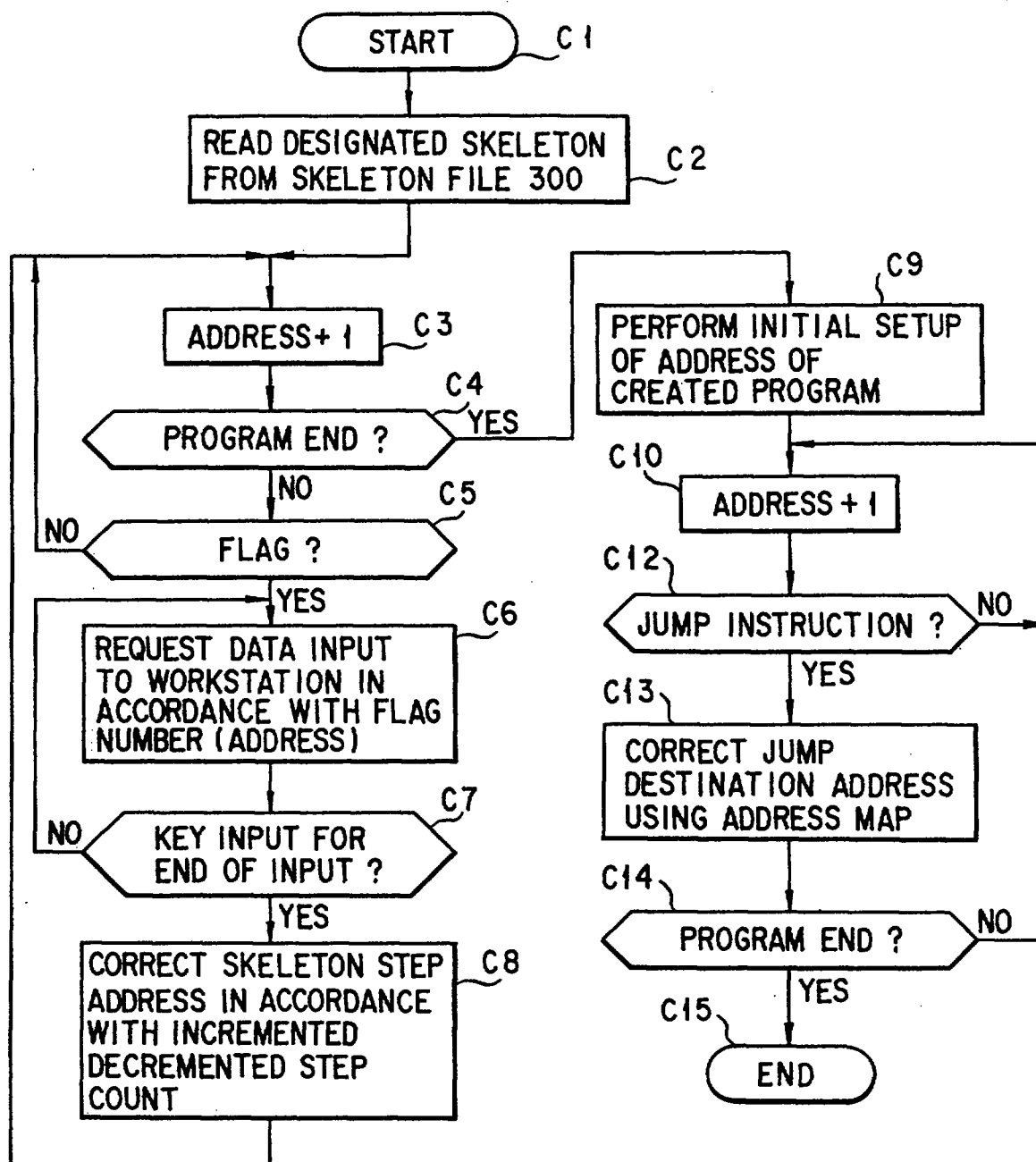


FIG. 5



MEMBER	COM311	FILE	ORPGSRG	LIBRARY	PD012002
DESCRIPTION	CLIENT	MASTER LIST	OUTPUT		

```

1.00 H:SSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSS+
2.00 H: 5798-JDF COPYRIGHT IBM CORP. 1992 LICENSED MATERIAL - +
3.00 H: PROGRAM PROPERTY OF IBM +
4.00 H: REFER TO COPYRIGHT INSTRUCTIONS FORM +
5.00 H: No. N:G120-2083 +
6.00 H:SSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSS+
7.00 H:+
8.00 H:+
9.00 H:+
10.00 H+:CLIENT MASTER LIST OUTPUT +
11.00 H:+
12.00 H:+
13.00 H:Y// 1 +
14.00 F:+
15.00 F:F I L E +
16.00 F:+
17.00 F:+
18.00 F:*<< CLIENT MASTER >> +
19.00 FOCMAT IF E K DISK +
20.00 F:+
21.00 F:*<< CLIENT MASTER L F 1 >> +
22.00 FOCMATLOIF E K DISK +
23.00 F-ATR01 KRENAMEAT01R01 +
24.00 F:+
25.00 F:*<< NAME MASTER >> +
26.00 FOCMZ IF E K DISK +
27.00 F:+
28.00 F:*<< MASTER FOR MINISTRY OF HOME AFFAIRS >> +
29.00 FODMJT IF E K DISK +
30.00 F:+
31.00 F:*<< APPLICATION CONTROL FILE >> +
32.00 FODMAP IF E K DISK +
33.00 F:+
34.00 F:*<< +
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36.00 F:+
37.00 F:A R R A Y +
38.00 F:+
39.00 F:COIBM 1 1 76 COPYRIGHT IBM +
40.00 F:*<< SOURCE FILE >> SOURCE FILE +
41.00 FST1 256 1 +
42.00 F:*<< EDIT DESTINATION FIELD >> +
43.00 FST2 256 1 EDITED +
44.00 F:+
45.00 F:D S +
46.00 F:+
47.00 F:*<< PROGRAM CONDITION >> +
48.00 FSDS +
49.00 F: +
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52.00 F:254 263 WUPR USER +
53.00 F:264 269 WJNO JOB NO +
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59.00 F:7 80YEAR +
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64.00 F:1 20WENYY +
65.00 F:3 40WENMM +
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69.00 F:1 20WSTYY +
70.00 F:

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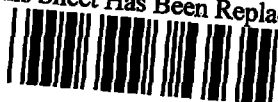


FIG. 9

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MESSAGE REMOVAL

FIG. 10

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1.	00
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59.	00
60.	00
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62.	00
63.	00
64.	00
65.	00
66.	00
67.	00
68.	00
69.	00
70.	00

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WNG
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WNG

CO | BM

BRK1
BRK1
BRK1
BRK1
BRK1
BRK1
BRK1
BRK1
BRK1

[illegible]

PLIST COMMON
KLIST COMMON
MAKING NG

SBINZ SETLL

SBINZ COMMON
BHN INZ

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1
2
COPYRIGHT MA
=====
CONTROL-
WNG
+-----+
<< CONTROL-
WFLG DS, 0
+-----+
WORK-
W8DA+
+-----+
<< WORK-
WKFLD DS, 0
+-----+

C+=====
C+
C+=====
C+
C+<<INITIAL PROCESS>>
C+
C+<< MAIN-
C+ #IN99
C+
C+<<END PROCESS >>
C+
C+=====
C+
C+=====
C+=====
C+ SBINZ
C+=====
C+ +-----+
C+ | PERFORM-
C+ +-----+
C+ SBINZ
C+

C+<< MAIN-
C+

C+
C+=====
C+ SBMAI
C+=====
C+ +-----+
C+ | MAIN-
C+ +-----+
C+ SBMAI
C+
C+<< FIRST-

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BATCH UPDATE (UPDATE)

PAGE 1

92/08/07 11:42:31

8

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#####3#####4#####5#####6#####7#####8
#####
SAHIKO YONEZAWA.
#####
=====A R R A Y=====
=====
```

-----+
FLAG DEFINITION
CONDITION MATCHING FLAG
-----+

FLAG >>

1 1 WNG

-----+
FIELD DEFINITION
TE 8-DIGIT DATE(YYYYMMDD)
-----+

FIELD >>

P 1 50W8DATE

```
=====+
MAIN ROUTINE
=====+
MOVELCOIBM COIBM COPYRIGHT IBM
EXSR SBINZ INITIAL SETUP PROCESS
PROCESS (UNTIL MAIN FILE EOF)>>
DOWEQ:OFF MAIN PROCESS
EXSR SBMAIN
ENDDO
EXSR SBEND END PROCESS
```

```
=====+
SUB ROUTINE
=====+
INITIAL SETUP
=====+
```

-----+
INITIAL SETUP BEFORE ANY OTHER PROCESS
-----+

BEGSR

FILE LOAD (1 S T) >>
EXSR SBREAD

```
=====+
ENDSR
N MAIN PROCESS (MAIN PROCESS)
=====+
UNTIL MAIN FILE EOF
-----+
```

N BEGSR

BREAK KEY INITIAL SETUP >>

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F I G. 12

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FIG. 13

<< ENTRY-1 (SLIP TYPE PRESENT/ABSENT) >>

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SAHIKD YONEZAWA.

CONTROL FILE >>

K DISK A
=====+
A R R A Y
=====+
TAB1 1 3 1 TAB2 6 PROCESS SEGMENT
INF 1 3 78 CMD KEY GUIDE

-----+
FLAG DEFINITION

TRIGGER FOR IMAGE PROCESS
TRIGGER FOR UPDATE PROCESS
PROCESS MODE
SCREEN CLEAR FLAG
SCREEN CHANGE FLAG
CANCEL FLAG
REGISTRATION CONFIRMATION FLAG
SCREEN ERROR FLAG
CURSOR POSITION ERROR FLAG
AUTOMATIC/MANUAL SLIP NUMBERING FLAG
(0:MANUAL, 1:AUTOMATIC)
DELETE ENABLE/DISABLE FLAG (0:ENABLE, 1:DISABLE)

FLAG >>

1 10WDSP
2 2 WUPD
3 3 WMOD
4 4 WCLR
5 5 WMDT
6 6 WCNL
7 7 WADD
8 8 WERR
9 9 WEPC
10 10 WAUT
11 11 WDEL

-----+
COUNTER DEFINITION

SUBFILE RECORD NUMBER
MAXIMUM DISPLAY RECORD COUNT PER SCREEN
MAXIMUM RECORD COUNT OF SUBFILE
ONE-RECORD LINE COUNT OF SUBFILE
FIELD OF CURRENTLY DISPLAYED TOP LINE NUMBER
FIELD OF CURRENTLY DISPLAYED BOTTOM LINE NUMBER
DETAILED START LINE
LAST INPUT LINE NUMBER
CURSOR SET LINE NUMBER
ERROR LINE NUMBER

COUNTER >>

P 1 30WRRN
P 4 50WPAG
P 6 80WMAX
P 9 100WMCT
P 11 130WTOP
P 14 160WBOT
P 17 180WSTR
P 19 210WLST
P 22 240WSET
P 25 270WELN

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F I G. 14

FIG. 15



<< ENTRY-3 (SLIP TYPE ABSENT/ABSENT) >>

92/08/07

11:43:18

PAGE 1

#####3#####4#####5#####6#####7#####8

SAHIKO YONEZAWA.

#####

CONTROL FILE >>

K		DISK		A	
A	R	R	A	Y	
TAB1	1	3	1	TAB2	6
INF	1	3	78		

PROCESS SEGMENT
CMD KEY GUIDE

FLAG DEFINITION

TRIGGER FOR IMAGE PROCESS
TRIGGER FOR UPDATE PROCESS
PROCESS MODE
SCREEN CLEAR FLAG
SCREEN CHANGE FLAG
CANCEL FLAG
REGISTRATION CONFIRMATION FLAG
SCREEN ERROR FLAG
INPUT PRESENCE/ABSENCE FLAG
CURSOR POSITION ERROR FLAG
AUTOMATIC/MANUAL SLIP NUMBERING FLAG
(0:MANUAL,1:AUTOMATIC)
DELETE ENABLE/DISABLE FLAG (0:ENABLE,1:DISABLE)

FLAG >>

1	10WDSP
2	2 WUPD
3	3 WMOD
4	4 WCLR
5	5 WMDT
6	6 WCNL
7	7 WADD
8	8 WERR
9	9 WNDA
10	10 WEPC
11	11 WAUT
12	12 WDEL

COUNTER DEFINITION

SUBFILE RECORD NUMBER
MAXIMUM DISPLAY RECORD COUNT PER SCREEN
MAXIMUM RECORD COUNT OF SUBFILE
ONE-RECORD LINE COUNT OF SUBFILE
FIELD OF CURRENTLY DISPLAYED TOP LINE NUMBER
FIELD OF CURRENTLY DISPLAYED BOTTOM LINE NUMBER
DETAILED START LINE
LAST INPUT LINE NUMBER
CURSOR SET LINE NUMBER
ERROR LINE NUMBER

COUNTER >>

P	1	30WRRN
P	4	50WPAG
P	6	80WMAX
P	9	100WMCT
P	11	130WTOP
P	14	160WBOT
P	17	180WSTR
P	19	210WLST

F I G. 16

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<< ENTRY-7 (DETAIL KEY INPUT TYPE) >>

92/08/07

11:43:51

PAGE 1

#####3#####4#####5#####6#####7#####8#####

SAHIKO YONEZAWA.

#####

CONTROL FILE >>

K		DISK		A	
A	R	R	A	Y	
TAB1	1	2	1	TAB2	6
INF	1	3	78		

PROCESS SEGMENT
CMD KEY GUIDE

FLAG DEFINITION

TRIGGER FOR IMAGE PROCESS
TRIGGER FOR UPDATE PROCESS
PROCESS MODE
SCREEN CLEAR FLAG
SCREEN CHANGE FLAG
CANCEL FLAG
REGISTRATION CONFIRMATION FLAG
SCREEN ERROR FLAG
CURSOR POSITION ERROR FLAG
DELETE ENABLE/DISABLE FLAG (0:ENABLE,1:DISABLE)
UPDATE END FLAG
OVERLAP CHECK END FLAG

FLAG >>

1	10WDSP
2	WUPD
3	WMOD
4	WCLR
5	WMDT
6	WCNL
7	WADD
8	WERR
9	WEPC
10	WDEL
11	WEND
12	WEDP

COUNTER DEFINITION

SUBFILE RECORD NUMBER
MAXIMUM DISPLAY RECORD COUNT PER SCREEN
MAXIMUM RECORD COUNT OF SUBFILE
ONE-RECORD LINE COUNT OF SUBFILE
FIELD OF CURRENTLY DISPLAYED TOP LINE NUMBER
FIELD OF CURRENTLY DISPLAYED BOTTOM LINE NUMBER
DETAILED START LINE
LAST INPUT LINE NUMBER
CURSOR SET LINE NUMBER
ERROR LINE NUMBER

COUNTER >>

P	1	30WRRN
P	4	50WPAG
P	6	80WMAX
P	9	100WMCT
P	11	130WTOP
P	14	160WBOT
P	17	180WSTR
P	19	210WLST
P	22	240WSET

F I G. 18

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<< TABLE (OUTPUT CONDITION INPUT) >>

92/08/07

11:44:23

PAGE 1

#####3#####4#####5#####6#####7#####8

SAHIKO YONEZAWA.

=====

=====A R R A Y=====
=====INF 1 1 78=====CMD KEY GUIDE

-----+
FLAG DEFINITION

TRIGGER FOR IMAGE PROCESS
TRIGGER FOR UPDATE PROCESS
SCREEN CHANGE FLAG
SCREEN ERROR FLAG
CURSOR POSITION ERROR FLAG
CONDITION MATCHING FLAG

-----+
FLAG >>

1 10WDSP
2 2 WUPD
3 3 WMDT
4 4 WERR
5 5 WEPC
6 6 WNG

=====+
P A R M L I S T
=====+

TRANSMISSION >>

PLIST
PARM MSGID 7 MSGID

=====+
MAIN ROUTINE

=====+
MOVELCOIBM COIBM COPYRIGHT IBM
EXSR SBINZ INITIAL SETUP PROCESS
DO #HIVAL
CASE00 SBEND END PROCESS
CASE01 SB1000 FIRST SCREEN PROCESS
ENDCS

IFEQ 'U'
EXSR SB0000 UPDATE PROCESS
ENDIF
ENDDO

=====+
SUB ROUTINE

=====+
SBINZ INITIAL SETUP

=====+
INITIAL SETUP BEFORE ANY OTHER PROCESS

-----+
BEGSR

SUBFILE INITIALIZATION >>

SETON
CALL 'RMVMSGC' 22

MESSAGE REMOVAL

F I G. 20

This Sheet Has Been Replaced



SKELETON ID: LT020	DELET	LIBRARY: K10102	SUBROUTINE	PROCESS NAME	DIGIT	SKELETON
1. 00						... 1 2
2. 00						+++++ 1 2
3. 00						+++++ 1 2
4. 00						+++++ 1 2
5. 00						+++++ 1 2
6. 00						+++++ 1 2
7. 00						+++++ 1 2
8. 00						+++++ 1 2
9. 00						+++++ 1 2
10. 00						+++++ 1 2
11. 00						+++++ 1 2
12. 00						+++++ 1 2
13. 00						+++++ 1 2
14. 00						+++++ 1 2
15. 00						+++++ 1 2
16. 00						+++++ 1 2
17. 00						+++++ 1 2
18. 00						+++++ 1 2
19. 00						+++++ 1 2
20. 00						+++++ 1 2
21. 00						+++++ 1 2
22. 00						+++++ 1 2
23. 00						+++++ 1 2
24. 00						+++++ 1 2
25. 00						+++++ 1 2
26. 00						+++++ 1 2
27. 00						+++++ 1 2
28. 00						+++++ 1 2
29. 00						+++++ 1 2
30. 00						+++++ 1 2
31. 00						+++++ 1 2
32. 00						+++++ 1 2
33. 00						+++++ 1 2
34. 00						+++++ 1 2
35. 00						+++++ 1 2
36. 00						+++++ 1 2
37. 00						+++++ 1 2
38. 00						+++++ 1 2
39. 00						+++++ 1 2
40. 00						+++++ 1 2
41. 00						+++++ 1 2
42. 00						+++++ 1 2
43. 00						+++++ 1 2
44. 00						+++++ 1 2
45. 00						+++++ 1 2
46. 00						+++++ 1 2
47. 00						+++++ 1 2
48. 00						+++++ 1 2
49. 00						+++++ 1 2
50. 00						+++++ 1 2
51. 00						+++++ 1 2
52. 00						+++++ 1 2
53. 00						+++++ 1 2
54. 00						+++++ 1 2
55. 00						+++++ 1 2
56. 00						+++++ 1 2
57. 00						+++++ 1 2
58. 00						+++++ 1 2
59. 00						+++++ 1 2
60. 00						+++++ 1 2
61. 00						+++++ 1 2
62. 00						+++++ 1 2
63. 00						+++++ 1 2
64. 00						+++++ 1 2
65. 00						+++++ 1 2
66. 00						+++++ 1 2
67. 00						+++++ 1 2
68. 00						+++++ 1 2
69. 00						+++++ 1 2
70. 00						+++++ 1 2

FIG. 21

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TABLE (PRINT) >>

92/08/07 11:44:38 PAGE 1

```
#####3#####4#####5#####6#####7#####8
SAHIKO YONEZAWA.
#####
=====
A R R A Y
=====
```

-----+
FLAG DEFINITION

INPUT PRESENCE/ABSENCE FLAG (0:ABSENCE:PRESENT)
CONDITION MATCHING FLAG

FLAG >>

```
1 1 WND A
2 2 WNG
```

-----+
FIELD DEFINITION

8-DIGIT DATE (YYYYMMDD)

FIELD >>

P 1 50W8DATE

-----+
VARIABLES DEFINITION

OUTPUT DETAILED COUNTER (VARIABLE AND INITIAL VALUES
ARE OVERFLOW LINE COUNTS)
OVERFLOW LINE COUNT (FIXED)
ONE-OUTPUT LINE COUNT (DETAILED PORTION) (FIXED)
ONE-OUTPUT LINE COUNT (EXCEPT FOR DETAILED PORTION) (FIXED)
DETAILED PORTION OR NOT (0:DETAILED PORTION,
1:PORTION EXCEPT FOR DETAILED PORTION)
BLANK LINE OUTPUT COUNTER (VARIABLE)
DETAILED COUNT BETWEEN BLANK LINES (FIXED)
ONE-BLANK-LINE COUNT (FIXED)

VARIABLES >>

```
P 1 20WLCNT
P 3 40WLMAX
P 5 60WLGYO
P 7 80WKGYO
P 9 90WMES
P 10 110WBCNT
P 12 130WBMAY
P 14 150WBGYO
```

=====+
MAIN ROUTINE

```
=====+
MOVLCOIBM COIBM COPYRIGHT IBM
EXSR SBINZ INITIAL SETUP PROCESS
(UNTIL MAIN FILE EOF) >>
DOWEQ=OFF
EXSR SBMAIN MAIN PROCESS
ENDDO
EXSR SBEND END PROCESS
```

FIG. 22

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SKELETON ID:LT021 DELET	LIBRARY:K10102 SUBROUTINE PROCESS NAME	DIGIT	SKELETON
1.00			...+...1...+...2...
2.00			++
3.00			++
4.00			++
5.00			++
6.00			++
7.00			++
8.00			++
9.00			++
10.00			++
11.00			++
12.00			++
13.00			++
14.00			++
15.00			++
16.00			++
17.00			++
18.00			++
19.00			++
20.00			++
21.00			++
22.00			++
23.00			++
24.00			++
25.00			++
26.00			++
27.00			++
28.00			++
29.00			++
30.00			++
31.00			++
32.00			++
33.00			++
34.00			++
35.00			++
36.00			++
37.00			++
38.00			++
39.00			++
40.00			++
41.00			++
42.00			++
43.00			++
44.00			++
45.00			++
46.00			++
47.00			++
48.00			++
49.00			++
50.00			++
51.00			++
52.00			++
53.00			++
54.00			++
55.00			++
56.00			++
57.00			++
58.00			++
59.00			++
60.00			++
61.00			++
62.00			++
63.00			++
64.00			++
65.00			++
66.00			++
67.00			++
68.00			++
69.00			++
70.00			++

F I G. 23

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TABLE (PRINT WITH DETAILED PORTION)

92/08/07 11:45:01 PAGE 1

```

=====+=====+=====+=====+=====+=====+=====+=====+=====+=====+
3      4      5      6      7      8
SAHIKO YONEZAWA.
=====+=====+=====+=====+=====+=====+=====+=====+=====+=====+
A R R A Y
=====+=====+=====+=====+=====+=====+=====+=====+=====+=====+

```

```

-----+-----+
FLAG DEFINITION
INPUT PRESENCE/ABSENCE FLAG (0:ABSENT, 1:PRESENT)
CONDITION MATCHING FLAG
-----+-----+

```

FLAG >>

```

:          1      1 WND A
:          2      2 WNG

```

```

-----+-----+
FIELD DEFINITION
8-DIGIT DATE (YYYYMMDD)
-----+-----+

```

FIELD >>

P 1 50W8DATE

```

-----+-----+
VARIABLE DEFINITION
OUTPUT DETAILED COUNTER (VARIABLE AND INITIAL VALUES
ARE OVERFLOW LINE COUNTS)
OVERFLOW LINE COUNTS (FIXED)
ONE-OUTPUT LINE COUNT (DETAILED PORTION) (FIXED)
ONE-OUTPUT LINE COUNT (HEAD) (FIXED)
ONE-OUTPUT LINE COUNT (EXCEPT FOR DETAILED PORTION) (FIXED)
DETAILED PORTION OR NOT (0:DETAILED PORTION,
1:PORTION EXCEPT FOR DETAILED PORTION, 2:HEAD)
BLANK LINE OUTPUT COUNTER (VARIABLE)
DETAILED COUNT BETWEEN BLANK LINES (FIXED)
ONE-BLANK-LINE COUNT (FIXED)
-----+-----+

```

VARIABLE >>

```

P 1 20WLCNT
P 3 40WLMAX
P 5 60WLGYO
P 7 80WHGYO
P 9 100WKGYO
P 10 110WMES
P 12 130WBCNT
P 14 150WBMAY
P 16 170WBGYO

```

```

=====+=====+=====+=====+=====+=====+=====+=====+=====+=====+
MAIN ROUTINE
=====+=====+=====+=====+=====+=====+=====+=====+=====+=====+

```

MOVELCO1BM CO1BM COPYRIGHT 1BM

EXSR SBINZ

INITIAL SETUP PROCESS

(UNTIL MAIN FILE EOF) >>

```

DOWEQ#OFF
EXSR SBMAIN
ENDDO

```

MAIN PROCESS

F I G. 24

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<<TABLE (ACCUMULATION) >>

92/08/07

11:45:22

PAGE 1

#####3#####4#####5#####6#####7#####8
SAHIKO YONEZAWA.

A R R A Y
=====

-----+
FLAG DEFINITION
CONDITION MATCHING FLAG
-----+

FLAG >>

1 1 WNG

-----+
FIELD DEFINITION
8-DIGIT DATE (YYYYMMDD)
-----+

FIELD >>

P 1 50W8DATE

=====+
M A I N R O U T I N E
=====+
MOVELCOIBM COIBM COPYRIGHT IBM
EXSR SBINZ INITIAL SETUP PROCESS
(UNTIL MAIN FILE EOF) >>
DOWEQ#OFF
EXSR SBMAIN MAIN PROCESS
ENDDO
EXSR SBEND END PROCESS

=====+
S U B R O U T I N E
=====+
SBINZ INITIAL SETUP
=====+
INITIAL SETUP BEFORE ANY OTHER PROCESS
-----+
BEGSR

FILE LOAD (1 S T) >>
EXSR SBREAD

ENDSR
=====+
MAIN PROCESS (MAIN PROCESS)
=====+
MAIN FILE UNTIL EOF
-----+
BEGSR

BREAK KEY INITIAL PROCESS >>

F I G. 26

This Sheet Has Been Replaced



<<TABEL (CONDITION INPUT & LIST REFERENCE) >>

92/08/07

11:45:38

PAGE 1

```
#####3#####4#####5#####6#####7#####8
SAHIKO YONEZAWA.
#####
A R R A Y
=====
INF 1 2 78 CMD KEY GUIDE
```

-----+
FLAG DEFINITION

TRIGGER FOR IMAGE PROCESS
SCREEN CHANGE FLAG
SCREEN ERROR FLAG
CURSOR POSITION ERROR FLAG
INPUT PRESENCE/ABSENCE FLAG (0:ABSENT, 1:PRESENT)
CONDITION MATCHING FLAG
-----+

FIELD >>

```
1 10WDSP
2 2 WMDT
3 3 WERR
4 4 WEPC
5 5 WNDA
6 6 WNG
```

-----+
COUNTER DEFINITION

SUBFILE RECORD NUMBER
MAXIMUM DISPLAY RECORD COUNT PER SCREEN
MAXIMUM RECORD COUNT OF SUBFILE
CURRENTLY MAXIMUM RECORD COUNT (VARIABLE)
SUBFILE OUTPUT COUNT PER SCREEN
LOADED RECORD COUNT
DATA WRITE COUNT PER SCREEN
-----+

COUNTER >>

```
P 1 30WRRN.
P 4 50WPAG
P 6 80WMAX
P 9 110WCRN
P 12 130WCNT
P 14 160WCMP
P 17 180WDRD
```

=====+
P A R M L I S T
=====+

TRANSMISSION >>

```
PLIST
PARM MSGID 7 MSGID
```

=====+
M A I N R O U T I N E
=====+

```
MOVELCOIBM COIBM COPYRIGHT IBM
EXSR SBINZ INITIAL SETUP PROCESS
DO *HIVAL
CASE00 SBEND END PROCESS
CASE01 SB1000 FIRST SCREEN PROCESS
CASE02 SB2000 SECOND SCREEN PROCESS
```

F I G. 28

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<<MASTER MAINTENANCE I (NO COPY SOURCE) >>

92/08/07 11:45:52 PAGE 1

3 4 5 6 7 8

SAHIKO YONEZAWA.

A R R A Y

TAB1 1 4 1 TAB2 6 PROCESS SEGMENT
INF 1 2 78 CMD KEY GUIDE

FLAG DEFINITION
TRIGGER FOR IMAGE PROCESS
TRIGGER FOR UPDATE PROCESS
PROCESS MODE
SCREEN CLEAR FLAG
SCREEN CHANGE FLAG
CANCEL FLAG
REGISTRATION CONFIRMATION FLAG
SCREEN ERROR FLAG
CURSOR POSITION ERROR FLAG

FLAG >>

1 10WDSP
2 2 WUPD
3 3 WMOD
4 4 WCLR
5 5 WMDT
6 6 WCNL
7 7 WADD
8 8 WERR
9 9 WEPC

FIELD
8-DIGIT DATE (YYYYMMDD)

FIELD >>

P 1 50W8DATE

PARAM LIST

TRANSMISSION >>

PLIST
PARAM MSGID 7 MSGID

PLIST
PARAM P0MOD 1 MODE

MAIN ROUTINE

MOVELCOIBM COIBM COPYRIGHT IBM
EXSR SBINZ INITIAL SETUP PROCESS
DO #HIVAL
CASE00 SBEND END PROCESS
CASE01 SB1000 FIRST SCREEN PROCESS
CASE02 SB2000 SECOND SCREEN PROCESS
ENDCS

F I G. 30

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FIG. 31

Sheet Has Been Replaced

<<MASTER MAINTENANCE I (WITH COPY SOURCE) >>

92/08/07 11:46:12 PAGE 1

#####3#####4#####5#####6#####7#####8

SAHIKO YONEZAWA.

#####

-----A R R A Y-----
-----TAB1 1 4 1 TAB2 6-----
INF 1 2 7 8 PROCESS SEGMENT
CMD KEY GUIDE

-----+
FLAG DEFINITION
TRIGGER FOR IMAGE PROCESS
TRIGGER FOR UPDATE PROCESS
PROCESS MODE
SCREEN CLEAR FLAG
SCREEN CHANGE FLAG
CANCEL FLAG
REGISTRATION CONFIRMATION FLAG
SCREEN ERROR FLAG
CURSOR POSITION ERROR FLAG
-----+

FLAG >>

1 10WDSP
2 2 WUPD
3 3 WMOD
4 4 WCLR
5 5 WMDT
6 6 WCNL
7 7 WADD
8 8 WERR
9 9 WEPC

-----+
FIELD DEFINITION
8-DIGIT DATE (YYYYMMDD)
-----+

FIELD >>

-----P 1 50W8DATE-----
=====+
P A R M L I S T
=====+

TRANSMISSION >>

PLIST
P A R M M S G I D 7 M S G I D
PLIST
P A R M P @ M O D 1 M O D E

=====+
M A I N R O U T I N E
=====+
MOVELCOIBM COIBM COPYRIGHT IBM
EXSR SBINZ INITIAL SETUP PROCESS
DO #HIVAL
CASE00 SBEND END PROCESS
CASE01 SB1000 FIRST SCREEN PROCESS
CASE02 SB2000 SECOND SCREEN PROCESS
ENDCS

F I G. 32

This Sheet Has Been Replaced



<< MASTER MAINTENANCE2 (WITH COPY SOURCE) >>

92/08/07 11:46:29 PAGE 1

#####3#####4#####5#####6#####7#####8

SAHIKO YONEZAWA.

```
#####
=====
      A   R   R   A   Y
=====
      TAB1      1      4      1      TAB2      6      PROCESS SEGMENT
      INF      1      3 7 8                      CMD KEY GUIDE
```

```
-----+
FLAG  DEFINITION
      TRIGGER FOR IMAGE PROCESS
      TRIGGER FOR UPDATE PROCESS
      PROCESS MODE
      SCREEN CPEAR FLAG
      SCREEN CHANGE FLAG
      CANCEL FLAG
      NEXT PAGE CONFIRMATION FLAG
      REGISTRATION CONFIRMATION FLAG
      SCREEN ERROR FLAG
      CURSOR POSITION ERROR FLAG
-----+
```

FLAG >>

```

1      10 WDSP
2      2  WUPD
3      3  WMOD
4      4  WCLR
5      5  WMDT
6      6  WCNL
7      7  WNXT
8      8  WADD
9      9  WERR
10     10 WEPC
```

```
-----+
FIELD  DEFINITION
      8-DIGIT DATE (YYYYMMDD)
-----+
```

FIELD >>

```

P      1      50W8DATE
=====+
P A R M   L I S T
=====+
```

TRANSMISSION >>

```

PLIST
PARM      MSGID      7      M S G I D

PLIST
PARM      P@MOD      1      M O D E
```

```
=====+
M A I N   R O U T I N E
=====+
      MOVELCOIBM      COIBM      COPYRIGHT IBM
      EXSR SBINZ                      INITIAL SETUP PROCESS
      DO      #HIVAL

      CASE00      SBEND      END PROCESS
      CASE01      SB1000     FIRST SCREEN PROCESS
      CASE02      SB2000     SECOND SCREEN PROCESS
```

F I G. 34

This Sheet Has Been Replaced



SKELETON:MM021 ID	DELET	LIBRARY : K10102 SUBROUTINE PROCESS NAME	DIGIT	SKELETON « MASTER MAINTENANCE 2
1.00				*****
2.00				*****
3.00				*****
4.00				*****
5.00				*****
6.00		ES	Y0	*****
7.00		ES	Y0	*****
8.00		ES	Y0	*****
9.00		ES	Y0	*****
10.00		ES	Y0	*****
11.00		S	Y0	*****
12.00		S	Y0	*****
13.00		S	Y0	*****
14.00		S	Y0	*****
15.00		S	Y0	*****
16.00		S	Y0	*****
17.00		S	Y0	*****
18.00		S	Y0	*****
19.00		S	Y0	*****
20.00		S	Y0	*****
21.00		S	Y0	*****
22.00		S	Y0	*****
23.00		S	Y0	*****
24.00		S	Y0	*****
25.00		S	Y0	*****
26.00		S	Y0	*****
27.00		S	Y0	*****
28.00		S	Y0	*****
29.00		S	Y0	*****
30.00		S	Y0	*****
31.00		S	Y0	*****
32.00		S	Y0	*****
33.00		S	Y0	*****
34.00		S	Y0	*****
35.00		S	Y0	*****
36.00		S	Y0	*****
37.00		S	Y0	*****
38.00		S	Y0	*****
39.00		S	Y0	*****
40.00		S	Y0	*****
41.00		S	Y0	*****
42.00		S	Y0	*****
43.00		S	Y0	*****
44.00		S	Y0	*****
45.00		S	Y0	*****
46.00		S	Y0	*****
47.00		PL	ST	*****
48.00		PL	ST	*****
49.00		PL	ST	*****
50.00		PL	ST	*****
51.00		PL	ST	*****
52.00		PL	ST	*****
53.00		PL	ST	*****
54.00		PL	ST	*****
55.00		PL	ST	*****
56.00		PL	ST	*****
57.00		KL	ST	*****
58.00		MA	N	*****
59.00		MA	N	*****
60.00		MA	N	*****
61.00		MA	N	*****
62.00	CO1BM	MA	N	*****
63.00		MA	N	*****
64.00		MA	N	*****
65.00		MA	N	*****
66.00		MA	N	*****
67.00		MA	N	*****
68.00		MA	N	*****
69.00		MA	N	*****
70.00		MA	N	*****

F I G. 35

This Sheet Has Been Replaced



(WITH COPY SOURCE) >>

92/08/07 11:46:50 PAGE1

#####3#####4#####5#####6#####7#####8

SAHIKO YONEZAWA.

#####

=====A R R A Y=====

TAB1	1	4	1	TAB2	6	PROCESS SEGMENT
INF	1	3	78			CMD KEY GUIDE

-----+
CONTROL FLAG DEFINITION
TRIGGER FOR IMAGE PROCESS
TRIGGER FOR UPDATE PROCESS
PROCESS MODE
SCREEN CLEAR FLAG
SCREEN CHANGE FLAG
CANCEL FLAG
NEXT PAGE CONFIRMATION FLAG
REGISTRATION CONFIRMATION FLAG
SCREEN ERROR FLAG
CURSOR POSITION ERROR FLAG
-----+

1	10WDSP
2	2 WUPD
3	3 WMDD
4	4 WCLR
5	5 WMDT
6	6 WCNL
7	7 WNXT
8	8 WADD
9	9 WERR
10	10 WEPD

-----+
WORK FIELD DEFINITION
8-DIGIT DATA (YYYYMMDD)
-----+

=====P 1 50W8DATE=====

PARM LIST

=====

TRANSMISSION >>

PLIST			
PARM	MSGID	7	MSGID
PLIST			
PARM	P&MOD	1	MODE

=====

MAIN ROUTINE

=====

MOVELCO13M	CO13M	COPYRIGHT 13M
EXSR SBINZ		INITIAL SETUP PROCESS
DD *HIVAL		
PROCESS >>		
CASEQ0	SBEND	END PROCESS
CASEQ1	SB1000	FIRST SCREEN PROCESS
CASEQ2	SB2000	SECOND SCREEN PROCESS

F I G. 36

This Sheet Has Been Replaced



FIG. 37



(NO COPY SOURCE) >>

92/08/07 11:47:13 PAGE1

```

#####3#####4#####5#####6#####7...8
#####

```

SAHIKO YONEZAWA.

```

#####
=====
A   R   R   A   Y
=====
TAB1      1   4   1   TAB2      6   PROCESS SEGMENT
INF      1   4 78   CMD KEY GUIDE

```

CONTROL FLAG DEFINITION

```

TRIGGER FOR IMAGE PROCESS
TRIGGER FOR UPDATE PROCESS
PROCESS MODE
SCREEN CLEAR FLAG
SCREEN CHANGE FLAG
CANCEL FLAG
NEXT PAGE CONFIRMATION FLAG
REGISTRATION CONFIRMATION FLAG
SCREEN ERROR FLAG
CURSOR POSITION ERROR FLAG

```

```

1 10WDSP
2 2 WUPD
3 3 WMOD
4 4 WCLR
5 5 WMDT
6 6 WCNL
7 7 WNXT
8 8 WADD
9 9 WERR
10 10 WEPC

```

WORK FIELD DEFINITION

8-DIGIT DATE (YYYYMMDD)

```

===== P 1 50W8DATE =====
P A R M L I S T
=====

```

TRANSMISSION >>

```

PLIST
PARM MSGID 7 MSGID
PLIST
PARM P@MOD 1 MODE

```

```

=====
M A I N R O U T I N E
=====
MOVELCOIBM COIBM COPYRIGHT IBM

```

EXSR SBINZ INITIAL SETUP PROCESS

DO #HIVAL

PROCESS >>

```

CASEQ0 SBEND
CASEQ1 SB1000
CASEQ2 SB2000

```

```

END PROCESS
FIRST SCREEN PROCESS
SECOND SCREEN PROCESS

```

DIGIT SKELETON
 << MASTER MAINTENANCE 3

[illegible]

KLIST COMMON
MAKING NG

[illegible]

(WITH COPY SOURCE)>>

92/08/07 11:47:45 PAGE 1

```
#####3#####4#####5#####6#####7#####8
#####
SAHIKO YONEZAWA.
#####
=====
      A   R   R   A   Y
=====
TAB1      1      4      1      TAB2      6      PROCESS SEGMENT
INF      1      4 78                      CMD KEY GUIDE
```

```
-----+
CONTROL FLAG DEFINITION
TRIGGER FOR IMAGE PROCESS
TRIGGER FOR UPDATE PROCESS
PROCESS MODE
SCREEN CLEAR FLAG
SCREEN CHANGE FLAG
CANCEL FLAG
NEXT PAGE CONFIRMATION FLAG
REGISTRATION CONFIRMATION FLAG
SCREEN ERROR FLAG
CURSOR POSITION ERROR FLAG
-----+
```

```
1      10WDSP
2      2WUPD
3      3WMOD
4      4WCLR
5      5WMDT
6      6WCNL
7      7WNXT
8      8WADD
9      9WERR
10     10WEPC
```

```
-----+
WORK FIELD DEFINITION
8-DIGIT DATE      (YYYYMMDD)
-----+
```

```
=====
P      1      50W8DATE
=====
P A R M   L I S T
=====
```

TRANSMISSION>

```
PLIST
PARM      MSGID      7      M S G I D

PLIST
PARM      P@MOD      1      MODE
```

```
=====
MAIN ROUTINE
=====
MOVELCOIBM      COIBM      COPYRIGHT IBM
EXSR SBINZ      INITIAL SETUP PROCESS
DO      #HIVAL
PROCESS>
CASEQ0      SBEND      END PROCESS
CASEQ1      SB1000     FIRST SCREEN PROCESS
CASEQ2      SB2000     SECOND SCREEN PROCESS
```

FIG. 40

This Sheet Has Been Replaced





(CONDITION INPUT & LIST REFERENCE) >>

92/08/07 11:48:12 PAGE1

```

+-----+-----+-----+-----+-----+-----+
3         4         5         6         7         8
+-----+-----+-----+-----+-----+-----+

```

SAHIKO YONEZAWA.

```

+-----+-----+-----+-----+-----+-----+
=====
A   R   R   A   Y
=====
INF       1       2 78                      CMD KEY GUIDE

```

```

-----+
CONTROL FLAG DEFINITION
TRIGGER FOR IMAGE PROCESS
SCREEN CLEAR FLAG
SCREEN ERROR FLAG
CURSOR POSITION ERROR FLAG
CONDITION MATCHING FLAG
-----+

```

```

1      10WDSP
2      2  WCLR
3      3  WERR
4      4  WEPC
5      5  WNG

```

```

-----+
SUBFILE COUNTER DEFINITION
SUBFILE RECORD NUMBER
MAXIMUM DISPLAY RECORD COUNT PER SCREEN
MAXIMUM RECORD COUNT OF SUBFILE
CURRENTLY MAXIMUM RECORD COUNT ( VARIABLE )
SUBFILE OUTPUT COUNT PER SCREEN
LOADED RECORD COUNT
DATA LOAD COUNT PER SCREEN
-----+

```

COUNTER >>

```

P      1      30WRRN
P      4      50WPAG
P      6      80WMAX
P      9      110WCRN
P     12      130WCNT
P     14      160WCMP
P     17      180WDRD

```

```

=====
P A R M   L I S T
=====

```

TRANSMISSION >>

```

PLIST
PARM          MSGID      7          M S G I D

```

```

=====
M A I N   R O U T I N E
=====

```

```

=====
MOVELCOIBM    COIBM                      COPYRIGHT IBM
EXSR SBINZ
DO  *HIVAL
PROCESS >>
CASE00        SBEND                      END PROCESS
CASE01        SB1000                     FIRST SCREEN PROCESS
CASE02        SB2000                     SECOND SCREEN PROCESS
ENDCS

```

FIG. 43



(DETAILED REFERENCE (WITH SFL) >>

92/08/07 11:48:29 PAGE1

```

#####3#####4#####5#####6#####7#####8#####9#####
#####
SAHIKO YONEZAWA.
#####
=====
A   R   R   A   Y
=====
INF       1       1 78                                CMD KEY GUIDE
  
```

```

-----+
CONTROL FLAG DEFINITION
TRIGGER FOR IMAGE PROCESS
SCREEN ERROR FLAG
CONDITION MATCHING FLAG
-----+
  
```

```

      1      10WDSP
      2      2  WERR
      3      3  WNG
  
```

```

-----+
SUBFILE COUNTER DEFINITION
SUBFILE RECORD NUMBER
MAXIMUM DISPLAY RECORD COUNT PER SCREEN
MAXIMUM RECORD COUNT OF SUBFILE
-----+
  
```

COUNTER >>

```

      P      1      30WRRN
      P      4      50WPAG
      P      6      80WMAX
  
```

```

=====+
P A R M   L I S T
=====+
  
```

TRANSMISSION >>

```

PLIST
PARAM          MSGID      7          M S G I D
  
```

```

=====+
M A I N   R O U T I N E
=====+
  
```

```

MOVELCOIBM      COIBM                      COPYRIGHT IBM
EXSR SBINZ                      INITIAL SETUP PROCESS
DO  #HIVAL
CASE00          SBEND                      END PROCESS
CASE01          SB1000                     FIRST SCREEN PROCESS
ENDCS
ENDDD
  
```

```

=====+
S U B   R O U T I N E
=====+
  
```

```

=====+
I N I T I A L   S E T U P
=====+
  
```

PERFORM INITIAL SETUP BEFORE ANY OTHER PROCESS

BEGSR

SKELETON: SK021 ID	DELET	LIBRARY : K10102 SUBROUTINE PROCESS NAME	DIGIT	SKELETON REFERENCE
1.00				...+...1...+...2... #####
2.00				++ ++
3.00				++ COPYRIGHT MA
4.00				++#####
5.00				++=====
6.00		SS	YO	++=====
7.00		SS	YO	++=====
8.00		SS	YO	++=====
9.00		SS	YO	++=====
10.00		SS	YO	++=====
11.00		SS	YO	++=====
12.00		SS	YO	++=====
13.00		SS	YO	++=====
14.00		SS	YO	++=====
15.00	WNG	SS	YO	++=====
16.00		SS	YO	++=====
17.00		SS	YO	++=====
18.00		SS	YO	++=====
19.00		SS	YO	++=====
20.00		SS	YO	++=====
21.00		SS	YO	++=====
22.00	WNG	SS	YO	++=====
23.00		SS	YO	++=====
24.00		SS	YO	++=====
25.00		SS	YO	++=====
26.00		SS	YO	++=====
27.00		SS	YO	++=====
28.00		SS	YO	++=====
29.00		SS	YO	++=====
30.00		SS	YO	++=====
31.00		SS	YO	++=====
32.00		SS	YO	++=====
33.00		SS	YO	++=====
34.00		SS	YO	++=====
35.00		SS	YO	++=====
36.00		SS	YO	++=====
37.00		PL	ST	++=====
38.00		PL	ST	++=====
39.00		PL	ST	++=====
40.00		PL	ST	++=====
41.00		PL	ST	++=====
42.00		PL	ST	++=====
43.00		PL	ST	++=====
44.00		KL	ST	++=====
45.00		MA	NN	++=====
46.00		MA	NN	++=====
47.00		MA	NN	++=====
48.00		MA	NN	++=====
49.00	COIBM	MA	NN	++=====
50.00		MA	NN	++=====
51.00		MA	NN	++=====
52.00		MA	NN	++=====
53.00		MA	NN	++=====
54.00		MA	NN	++=====
55.00		MA	NN	++=====
56.00		MA	NN	++=====
57.00		MA	NN	++=====
58.00		MA	NN	++=====
59.00		MA	NN	++=====
60.00		MA	NN	++=====
61.00		MA	NN	++=====
62.00		MA	NN	++=====
63.00		MA	NN	++=====
64.00		MA	NN	++=====
65.00		MA	NN	++=====
66.00		MA	NN	++=====
67.00		MA	NN	++=====
68.00		MA	NN	++=====
69.00		MA	NN	++=====
70.00		MA	NN	++=====
71.00		MA	NN	++=====
72.00		MA	NN	++=====
73.00		MA	NN	++=====
74.00		MA	NN	++=====
75.00		MA	NN	++=====
76.00		MA	NN	++=====
77.00		MA	NN	++=====
78.00		MA	NN	++=====
79.00		MA	NN	++=====
80.00		MA	NN	++=====
81.00		MA	NN	++=====
82.00		MA	NN	++=====
83.00		MA	NN	++=====
84.00		MA	NN	++=====
85.00		MA	NN	++=====
86.00		MA	NN	++=====
87.00		MA	NN	++=====
88.00		MA	NN	++=====
89.00		MA	NN	++=====
90.00		MA	NN	++=====
91.00		MA	NN	++=====
92.00		MA	NN	++=====
93.00		MA	NN	++=====
94.00		MA	NN	++=====
95.00		MA	NN	++=====
96.00		MA	NN	++=====
97.00		MA	NN	++=====
98.00		MA	NN	++=====
99.00		MA	NN	++=====
100.00		MA	NN	++=====

F I G. 45

This Sheet Has Been Replaced





(DETAILED REFERENCE (WITH SFL) >>

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```

#####3#####4#####5#####6#####7...8
#####

```

SAHIKO YONEZAWA.

```

#####
=====

```

```

=====
A R R A Y
=====
INF 1 1 78 CMD KEY GUIDE

```

```

-----+
CONTROL FLAG DEFINITION
TRIGGER FOR IMAGE PROCESS
SCREEN ERROR FLAG
CONDITION MATCHING FLAG
-----+

```

```

1 10WDSP
2 2 WERR
3 3 WNG

```

```

-----+
SUBFILE COUNTER DEFINITION
SUBFILE RECORD NUMBER
MAXIMUM DISPLAY RECORD COUNT PER SCREEN
MAXIMUM RECORD COUNT OF SUBFILE
-----+

```

COUNTER >>

```

P 1 30WRRN
P 4 50WPAG
P 6 80WMAX

```

```

=====+
P A R M L I S T
=====+

```

TRANSMISSION >>

```

PLIST
PARAM MSGID 7 MSGID

```

```

=====+
M A I N R O U T I N E
=====+

```

```

MOVELCOIBM COIBM COPYRIGHT IBM
EXSR SBINZ INITIAL SETUP PROCESS
DO #HIVAL
CASE00 SBEND END PROCESS
CASE01 SBT000 FIRST SCREEN PROCESS
ENDCS
ENDDO

```

```

=====+
S U B R O U T I N E
=====+

```

```

=====+
I N I T I A L S E T U P
=====+

```

PERFORM INITIAL SETUP BEFORE ANY OTHER PROCESS

BEGSR



(DETAILED REFERENCE (WITHOUT SFL) >>

92/08/07 11:48:52 PAGE1

#####3#####4#####5#####6#####7...+...8

SAHIKO YONEZAWA.

=====+
A R R A Y
=====+
INF 1 1 78 CMD KEY GUIDE

CONTROL FLAG DEFINITION
TRIGGER FOR IMAGE PROCESS
CONDITION MATCHING FLAG

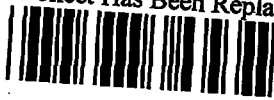
1 10WDSP
2 2 WNG

=====+
MAIN ROUTINE
=====+
MOVELCOIBM COIBM COPYRIGHT IBM
EXSR SBINZ INITIAL SETUP PROCESS
DO #HIVAL
PROCESS>
CASE00 SBEND END PROCESS
CASE01 SB1000 FIRST SCREEN PROCESS
ENDCS
ENDDO

=====+
SUB ROUTINE
=====+
INITIAL SETUP
=====+
PERFORM INITIAL SETUP BEFORE ANY OTHER PROCESS

AND TIME>
SET> TIME HMSYMD
MOVELINFL 1 D1INF
NUMBER MOVEWPID D1PGID PROGRAM ID SET
SET>
MOVEL ' :1 ' D1GMND

ENDSR
=====+
FIRST SCREEN PROCESS (FIRST SCREEN MAIN)
=====+
MAIN ROUTINE OF FIRST SCREEN
=====+
BEGSR
INITIAL EDIT>



SKELETON: SK041 ID	DELET	LIBRARY : K10102 SUBROUTINE PROCESS NAME	DIGIT	SKELETON REFERENCE
1.00				...+...1...2...
2.00				#####
3.00				COPYRIGHT MA
4.00				#####
5.00				#####
6.00		ES	YO	#####
7.00		ES	YO	=====
8.00		ES	YO	+
9.00		ES	YO	+
10.00		IS	YO	+
11.00		IS	YO	+
12.00		IS	YO	+
13.00		IS	YO	+
14.00	WNG	IS	YO	+
15.00		IS	YO	+
16.00		IS	YO	+
17.00		IS	YO	+
18.00		IS	YO	+
19.00		IS	YO	+
20.00	WNG	IS	YO	+
21.00		PL	ST	PLIST COMMON
22.00		KL	ST	KLIST COMMON
23.00		MA	N	MAKING NG
24.00		MA	N	
25.00		MA	N	
26.00		MA	N	
27.00	COIBM	MA	N	
28.00		MA	N	
29.00		MA	N	
30.00		MA	N	
31.00		MA	N	
32.00		MA	N	
33.00		MA	N	
34.00		MA	N	
35.00		MA	N	
36.00		MA	N	
37.00		MA	N	
38.00		MA	N	
39.00		MA	N	
40.00		MA	N	
41.00		MA	N	
42.00		MA	N	
43.00		SB	NZ	
44.00		SB	NZ	
45.00		SB	NZ	
46.00		SB	NZ	
47.00		SB	NZ	
48.00		SB	NZ	
49.00		SB	NZ	
50.00		SB	NZ	
51.00		SB	NZ	
52.00		SB	NZ	
53.00		SB	NZ	
54.00		SB	NZ	
55.00		SB	NZ	
56.00		SB	NZ	
57.00		SB	1000	
58.00		SB	1000	
59.00		SB	1000	
60.00		SB	1000	
61.00		SB	1000	
62.00		SB	1000	
63.00		SB	1000	
64.00		SB	1000	
65.00		SB	1000	
66.00		SB	1000	
67.00		SB	1000	
68.00		SB	1000	
69.00		SB	1000	
70.00		SB	1000	



(DETAILED REFERENCE 2 WITHOUT SFL) >>

92/08/07 11:49:03 PAGE 1

#####3#####4#####5#####6#####7#####8

SAHIKO YONEZAWA.

#####

=====A R R A Y=====

INF 1 2 78 CMD KEY GUIDE

CONTROL FLAG DEFINITION
TRIGGER FOR IMAGE PROCESS
CONDITION MATCHING FLAG

1 10WDSP
2 2 WNG

=====+
MAIN ROUTINE
=====+

MOVELCOIBM COIBM COPYRIGHT IBM

EXSR SBINZ INITIAL SETUP PROCESS

DO #HIVAL
PROCESS >>

CASE00 SBEND END PROCESS
CASE01 SB1000 FIRST SCREEN PROCESS
CASE02 SB2000 SECOND SCREEN PROCESS
ENDCS

ENDDO

=====+
SUB ROUTINE
=====+

=====+
INITIAL SETUP
=====+

PERFORM INITIAL SETUP BEFORE ANY OTHER PROCESS

BEGSR

MOVELWPID D1PGID PROGRAM ID SET

ENDSR

=====+
FIRST SCREEN PROCESS (FIRST SCREEN MAIN)
=====+

MAIN ROUTINE OF FIRST SCREEN

BEGSR

INITIAL EDIT >>
EXSR SB1100
LOOP PROCESS >>
DOWED1
EXSR SB1200
ENDDO

SKELETON: SK050 ID	DELET	LIBRARY SUBROUTINE	K10102 PROCESS NAME	DIGIT	SKELETON «REFERENCE (DETAILED
1.00					...+ 1 2
2.00					++
3.00					++
4.00					++
5.00					++
6.00					++
7.00					++
8.00					++
9.00					++
10.00					++
11.00					++
12.00					++
13.00					++
14.00					++
15.00					++
16.00					++
17.00	WNG				++
18.00					++
19.00					++
20.00					++
21.00					++
22.00					++
23.00					++
24.00					++
25.00					++
26.00	WNG				++
27.00					++
28.00					++
29.00					++
30.00					++
31.00					++
32.00					++
33.00					++
34.00					++
35.00					++
36.00					++
37.00					++
38.00					++
39.00					++
40.00					++
41.00					++
42.00					++
43.00					++
44.00					++
45.00					++
46.00					++
47.00					++
48.00					++
49.00					++
50.00					++
51.00					++
52.00	COIBM				++
53.00					++
54.00					++
55.00					++
56.00					++
57.00					++
58.00					++
59.00					++
60.00					++
61.00					++
62.00					++
63.00					++
64.00					++
65.00					++
66.00					++
67.00					++
68.00					++
69.00					++
70.00					++

FIG. 51

This Sheet Has Been Replaced



REFERENCE 3 WITH SFL)>

92/08/07 11:49:16 PAGE1

#####3#####4#####5#####6#####7#####8

SAHIKO YONEZAWA.

=====A R R A Y=====
=====INF 1 2 78=====CMD KEY GUIDE

-----+
DEFINITION
TRIGGER FOR IMAGE PROCESS
SCREEN CLEAR FLAG
SCREEN ERROR FLAG
CURSOR POSITION ERROR FLAG
CONDITION MATCHING FLAG
-----+

FLAG>

1 10WDSP
2 2 WCLR
3 3 WERR
4 4 WEPC
5 5 WNG

-----+
COUNTER DEFINITION
SUBFILE RECORD NUMBER
MAXIMUM DISPLAY RECORD COUNT PER SCREEN
MAXIMUM RECORD COUNT OF SUBFILE
-----+

COUNTER>

P 1 30WRRN
P 4 50WPAG
P 6 80WMAX

=====+
P A R M L I S T
=====+

TRANSMISSION>

PLIST
PARAM MSGID 7 MSGID

=====+
M A I N R O U T I N E
=====+

=====+
MOVELCOIBM COIBM COPYRIGHT IBM
SETUP> EXSR SBINZ INITIAL SETUP PROCESS
DO #HIVAL
PROCESS>
CASE00 SBEND END PROCESS
CASE01 SB1000 FIRST SCREEN PROCESS
CASE02 SB2000 SECOND SCREEN PROCESS
ENDCS
ENDDO

=====+
S U B R O U T I N E
=====+

=====+
I N I T I A L S E T U P
=====+

F I G. 52

This Sheet Has Been Replaced



FIG. 53



REFERENCE 3 WITH SFL)>>

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```

#####3#####4#####5#####6#####7.....8
#####

```

SAHIKO YONEZAWA.

```

#####
=====
      A  R  R  A  Y
=====
      INF      1      2 78                      CMD KEY GUIDE

```

```

-----+
DEFINITION
TRIGGER FOR IMAGE PROCESS
SCREEN CLEAR FLAG
SCREEN ERROR FLAG
CURSOR POSITION ERROR FLAG
CONDITION MATCHING FLAG
-----+

```

```

      1      10WDSP
      2      2  WCLR
      3      3  WERR
      4      4  WEPC
      5      5  WNG

```

```

-----+
COUNTER DEFINITION
SUBFILE RECORD NUMBER
MAXIMUM DISPLAY RECORD COUNT PER SCREEN
MAXIMUM RECORD COUNT OF SUBFILE
-----+

```

COUNTER>>

```

      P      1      30WRRN
      P      4      50WPAG
      P      6      80WMAX

```

```

=====
      P A R M   L I S T
=====

```

TRANSMISSION>>

```

      PLIST
      PARM      MSGID      7      M S G I D

```

```

=====
      M A I N   R O U T I N E
=====

```

```

      MOVELCOIBM      COIBM      COPYRIGHT IBM
      EXSR SBINZ      INITIAL SETUP PROCESS

```

```

      DO      #HIVAL
PROCESS>>

```

```

      CASE00      SBEND      END PROCESS
      CASE01      SB1000     FIRST SCREEN PROCESS
      CASE02      SB2000     SECOND SCREEN PROCESS
      ENDCS

```

ENDDO

```

=====
      S U B   R O U T I N E
=====

```

```

=====
      I N I T I A L   S E T U P
=====

```



SKELETON		LIBRARY : K10102		SKELETON	
ID : SK060		SUBROUTINE PROCESS NAME		<<REFERENCE (DETAILED-	
DELET		DIGIT		2	
1.00				*****	
2.00				*****	
3.00				*****	
4.00				*****	
5.00				*****	
6.00		ES	YQ	*****	
7.00		ES	YQ	*****	
8.00		ES	YQ	*****	
9.00		ES	YQ	*****	
10.00		IS	YQ	*****	
11.00		IS	YQ	*****	
12.00		IS	YQ	*****	
13.00		IS	YQ	*****	
14.00		IS	YQ	*****	
15.00		IS	YQ	*****	
16.00		IS	YQ	*****	
17.00		IS	YQ	*****	
18.00		IS	YQ	*****	
19.00		IS	YQ	*****	
20.00		IS	YQ	*****	
21.00		IS	YQ	*****	
22.00		IS	YQ	*****	
23.00		IS	YQ	*****	
24.00		IS	YQ	*****	
25.00		PL	ST	*****	
26.00		PL	ST	*****	
27.00		PL	ST	*****	
28.00		PL	ST	*****	
29.00		PL	ST	*****	
30.00		PL	ST	*****	
31.00		PL	ST	*****	
32.00		KL	ST	*****	
33.00		MA	N	*****	
34.00		MA	N	*****	
35.00		MA	N	*****	
36.00		MA	N	*****	
37.00	COIBM	MA	N	*****	
38.00		MA	N	*****	
39.00		MA	N	*****	
40.00		MA	N	*****	
41.00		MA	N	*****	
42.00		MA	N	*****	
43.00		MA	N	*****	
44.00		MA	N	*****	
45.00		MA	N	*****	
46.00		MA	N	*****	
47.00		MA	N	*****	
48.00		MA	N	*****	
49.00		MA	N	*****	
50.00		MA	N	*****	
51.00		MA	N	*****	
52.00		MA	N	*****	
53.00		SB	NZ	*****	
54.00		SB	NZ	*****	
55.00		SB	NZ	*****	
56.00		SB	NZ	*****	
57.00		SB	NZ	*****	
58.00		SB	NZ	*****	
59.00		SB	NZ	*****	
60.00		SB	NZ	*****	
61.00		SB	NZ	*****	
62.00		SB	NZ	*****	
63.00		SB	NZ	*****	
64.00		SB	NZ	*****	
65.00		SB	NZ	*****	
66.00		SB	NZ	*****	
67.00		SB	NZ	*****	
68.00		SB	1000	*****	
69.00		SB	1000	*****	
70.00		SB	1000	*****	



```

REFERENCE 4 WITHOUT SFL) >>          92/08/07 11:49:50 PAGE 1
#####3#####4#####5#####6#####7#####8
SAHIKO YONEZAWA.
#####
=====
      A R R A Y
=====
      INF      1      2 78                      CMD-KEY GUIDE

-----+-----
DEFINITION
  TRIGGER FOR IMAGE PROCESS
  CANCEL FLAG
  SCREEN ERROR FLAG
  CURSOR POSITION ERROR FLAG
-----+-----

      1      10WDSP
      2      2 WCLR
      3      3 WERR
      4      4 WEPC
=====+=====
      P A R M   L I S T
=====+=====

TRANSMISSION >>
  PLIST
  PARM          MSGID      7      M S G I D

=====+=====
  M A I N   R O U T I N E
=====+=====
  SETUP>>  MOVE LCO1BM      CO1BM      COPYRIGHT IBM
          EXSR SBINZ                      INITIAL SETUP PROCESS

          DO      #HIVAL
PROCESS>>
  CASE00          SBEND          END PROCESS
  CASE01          SB1000         FIRST SCREEN PROCESS
  CASE02          SB2000         SCOND SCREEN PROCESS
  ENDCS

  ENDDO

=====+=====
  S U B   R O U T I N E
=====+=====
  INITIAL SETUP
=====+=====
  INITIAL PROCESS BEFORE ANY OTHER PROCESS
=====+-----
          BEGSR

  SUBFILE INITIALIZATION >>
          SETON          22          MESSAGE REMOVAL
          CALL ' RMVMSGC '

  ENDSR
=====+=====
  FIRST SCREEN PROCESS ( FIRST SCREEN MAIN )
=====+=====

```



SKELETON		LIBRARY : K10102		SKELETON	
ID :	DELET	SUBROUTINE	PROCESS NAME	DIGIT	<<WINDOW (MASTER-
1.00					2
2.00					1
3.00					2
4.00					1
5.00					2
6.00					1
7.00					2
8.00					1
9.00					2
10.00					1
11.00					2
12.00					1
13.00					2
14.00					1
15.00					2
16.00					1
17.00					2
18.00					1
19.00					2
20.00					1
21.00	WNG				2
22.00					1
23.00					2
24.00					1
25.00					2
26.00					1
27.00					2
28.00					1
29.00					2
30.00					1
31.00					2
32.00					1
33.00	WNG				2
34.00					1
35.00					2
36.00					1
37.00					2
38.00					1
39.00					2
40.00					1
41.00					2
42.00					1
43.00					2
44.00					1
45.00					2
46.00					1
47.00					2
48.00					1
49.00					2
50.00					1
51.00					2
52.00					1
53.00					2
54.00					1
55.00					2
56.00					1
57.00					2
58.00					1
59.00					2
60.00					1
61.00					2
62.00					1
63.00	COIBM				2
64.00					1
65.00					2
66.00					1
67.00					2
68.00					1
69.00					2
70.00					1



```

RETRIEVAL 1          ) > >          92/08/07 11:50:03 PAGE 1
+-----+-----+-----+-----+-----+-----+-----+-----+
3         4         5         6         7         8

```

SAHIKO YONEZAWA.

```

=====+-----+-----+-----+-----+-----+-----+-----+
A   R   R   A   Y
=====+-----+-----+-----+-----+-----+-----+
INF           1       2 78                      CMD KEY GUIDE

```

DEFINITION

TRIGGER FOR IMAGE PROCESS

SCREEN ERROR FLAG

POINTER FLAG (0: TOP LINE, 1: BOTTOM LINE)

TOP PAGE FLAG (0: OTHER THAN TOP PAGE, 1: TOP PAGE)

EDIT SEGMENT (0: NORMAL EDIT, 1: ROLL EDIT) (FOR MESSAGE CONTROL)

EOF FLAG (FOR READP)

EXECUTION KEY DEPRESSION FLAG (0: STATE IMMEDIATELY AFTER DEPRESSION,

1: OTHERS

CONDITION MATCHING FLAG

```

1      10WDSP
2      2  WERR
3      3  WPTR
4      4  WTPG
5      5  WSTD
6      6  WBDT
7      7  WFST
8      8  WNG

```

COUNTER DEFINITION

SUBFILE RECORD NUMBER

MAXIMUM DISPLAY RECORD COUNT PER SCREEN

DETAILED START LINE

FIELD OF CURRENTLY DISPLAYED BOTTOM LINE NUMBER

REVERSE / IDLE READ COUNTER

COUNTER>>

```

P      1      30WRRN
P      4      50WDSP
P      6      70WSTR
P      8      100WBDT
P     11      120WSBT

```

```

=====+-----+-----+-----+-----+-----+-----+
P A R M   L I S T
=====+-----+-----+-----+-----+-----+-----+

```

TRANSMISSION>>

PLIST

PARM

MSGID

7

MSGID

```

=====+-----+-----+-----+-----+-----+-----+
M A I N   R O U T I N E
=====+-----+-----+-----+-----+-----+-----+

```

MOVELCOIBM

COIBM

COPYRIGHT IBM

SETUP>>

EXSR SBINZ

INITIAL SETUP PROCESS

DO #HIVAL

PROCESS>>

CASEQ0

SBEND

END PROCESS

CASEQ1

SB1000

FIRST SCREEN PROCESS



SKELETON		LIBRARY : K10102		SKELETON	
ID : WNO11		SUBROUTINE PROCESS NAME		<<WINDOW (MASTER-	
DELET		DIGIT		...	
1.00				***	1
2.00				***	2
3.00				***	***
4.00				***	***
5.00				***	***
6.00		ES	YD	***	***
7.00		ES	YD	***	***
8.00		ES	YD	***	***
9.00		ES	YD	***	***
10.00		ES	YD	***	***
11.00		ES	YD	***	***
12.00		ES	YD	***	***
13.00		ES	YD	***	***
14.00		ES	YD	***	***
15.00		ES	YD	***	***
16.00		ES	YD	***	***
17.00		ES	YD	***	***
18.00		ES	YD	***	***
19.00		ES	YD	***	***
20.00		ES	YD	***	***
21.00	WNG	ES	YD	***	***
22.00		ES	YD	***	***
23.00		ES	YD	***	***
24.00		ES	YD	***	***
25.00		ES	YD	***	***
26.00		ES	YD	***	***
27.00		ES	YD	***	***
28.00		ES	YD	***	***
29.00		ES	YD	***	***
30.00		ES	YD	***	***
31.00		ES	YD	***	***
32.00		ES	YD	***	***
33.00	WNG	ES	YD	***	***
34.00		ES	YD	***	***
35.00		ES	YD	***	***
36.00		ES	YD	***	***
37.00		ES	YD	***	***
38.00		ES	YD	***	***
39.00		ES	YD	***	***
40.00		ES	YD	***	***
41.00		ES	YD	***	***
42.00		ES	YD	***	***
43.00		ES	YD	***	***
44.00		ES	YD	***	***
45.00		ES	YD	***	***
46.00		ES	YD	***	***
47.00		ES	YD	***	***
48.00		ES	YD	***	***
49.00		ES	YD	***	***
50.00		ES	YD	***	***
51.00		PL	ST	***	***
52.00		PL	ST	***	***
53.00		PL	ST	***	***
54.00		PL	ST	***	***
55.00		PL	ST	***	***
56.00		PL	ST	***	***
57.00		PL	ST	***	***
58.00		KL	ST	***	***
59.00		MA	N	***	***
60.00		MA	N	***	***
61.00		MA	N	***	***
62.00		MA	N	***	***
63.00	COIBM	MA	N	***	***
64.00		MA	N	***	***
65.00		MA	N	***	***
66.00		MA	N	***	***
67.00		MA	N	***	***
68.00		MA	N	***	***
69.00		MA	N	***	***
70.00		MA	N	***	***



RETRIEVAL 1) > > 92/08/07 11:50:22 PAGE 1

3 ##### 4 ##### 5 ##### 6 ##### 7 8

SAHIKO YONEZAWA.

===== A R R A Y =====
===== INF 1 2 78 CMD KEY GUIDE =====

DEFINITION

TRIGGER FOR IMAGE PROCESS

SCREEN ERROR FLAG

POINTER FLAG (0: TOP LINE, 1: BOTTOM LINE)

TOP PAGE FLAG (0: OTHER THAN TOP PAGE, 1: TOP PAGE)

EDIT SEGMENT (0: NORMAL EDIT, 1: ROLL EDIT) (FOR MESSAGE CONTROL)

EOF FLAG (FOR READP)

EXECUTION KEY DEPRESSION FLAG (0: STATE IMMEDIATELY AFTER DEPRESSION, 1: OTHERS)

CONDITION MATCHING FLAG

1	10WDSP
2	2 WERR
3	3 WPTR
4	4 WTPG
5	5 WSTD
6	6 WBDF
7	7 WFST
8	8 WNG

COUNTER DEFINITION

SUBFILE RECORD NUMBER

MAXIMUM DISPLAY RECORD COUNT PER SCREEN

DETAILED START LINE

FIELD OF CURRENTLY DISPLAYED BOTTOM LINE NUMBER

REVERSE / IDLE READ COUNTER

COUNTER>>

P	1	30WRRN
P	4	50WPAG
P	6	70WSTR
P	8	100WBOT
P	11	120WSBT

===== P A R M L I S T =====

TRANSMISSION>>

PLIST
PARM

MSGID

7

M S G I D

===== M A I N R O U T I N E =====

MOVELCOIBM

COIBM

CCPYRIGHT IBM

SETUP>>

EXSR SBINZ

INITIAL SETUP PROCESS

DO #HIVAL
PROCESS>>

CASE00
CASE01

SBEND
SB1000

END PROCESS
FIRST SCREEN PROCESS

SAHIKO YONEZAWA.

 =====
 A R R A Y
 =====
 INF 1 2 78 CMD KEY GUIDE

 FLAG DEFINITION
 TRIGGER FOR IMAGE PROCESS
 SCREEN ERROR FLAG
 POINTER FLAG (0: TOP LINE, 1: BOTTOM LINE)
 PROCESSED STATE FLAG (0: PROCESSED, 1: NON- PROCESSED)
 CURSOR POSITION ERROR FLAG
 INPUT PRESENCE / ABSENCE FLAG (0: ABSENT, 1: PRESENT)
 CONDITION MATCHING FLAG

1	10WDSP
2	2 WEPR
3	3 WPTR
4	4 WSUM1
5	5 WEPC
6	6 WNDA
7	7 WNG

 COUNTER DEFINITION
 SUBFILE RECORD NUMBER
 MAXIMUM DISPLAY RECORD COUNT PER SCREEN
 DETAILED START LINE
 DETAILED END LINE
 MAXIMUM RECORD COUNT OF SUBFILE
 CURRENTLY MAXIMUM RECORD COUNT (VARIABLE)
 SUBFILE OUTPUT COUNT PER SCREEN
 LOADED RECORD COUNT
 DATA LOAD COUNT PER SCREEN

COUNTER >>

P	1	30WRRN
P	4	50WPAG
P	6	70WSTR
P	8	90WEND
P	10	120WMAX
P	13	150WCRN
P	16	170WCNT
P	18	200WCMP
P	21	220WDRD

=====+
 P A R M L I S T
 =====+

TRANSMISSION>>

PLIST			
PARM	MSGID	7	MSGID

=====+
 M A I N R O U T I N E
 =====+

MOVELCOIBM	COIBM	COPYRIGHT IBM
SETUP>>	EXSR SBINZ	INITIAL SETUP PROCESS

F I G. 62

This Sheet Has Been Replaced





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REPLACEMENT SHEETS		SG
☐	Description : paged to paged	
☒	Claim(s) : paged to paged	
☒	Drawing(s) : paged to paged	
☒	Abstract : paged to paged	
DATE OF RECEIPT		27 SEP 1996

Claims:

1. An automatic program generating apparatus characterized by comprising:

storage means (300) for storing a plurality of skeletons each having a format constituted by instruction data of fixed process items for regular job contents;

means (100) for reading out a skeleton of a designated format;

means (100) for requesting to input predetermined instruction words in undefined instruction areas of the readout skeleton in a predetermined order; and

program coding means (100, 500) for determining that necessary instruction data are input to all the undefined instruction areas of the readout skeleton and coding a resultant structure to generate a program.

2. An apparatus according to claim 1, characterized in that the plurality of skeleton are stored in said storage means such that addresses of portions corresponding to the undefined areas are compacted to effectively utilize a capacity of said storage means.

3. An apparatus according to claim 1, characterized by further comprising means for correcting a jump destination address of a jump instruction when the jump instruction is present in the fixed process items in a state wherein the instruction words are inserted in the undefined areas of the skeleton.

4. An apparatus according to claim 1, characterized in that said program coding means further comprises means for reading coded program data upon program coding, inversely converting the read coded program data, and automatically generating a program document representing a structure and procedures of the program.

5. An automatic program generating apparatus characterized by comprising:

This is the replacement sheet

Date: 27 SEP 1996



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5 storage means (300) for storing a plurality of skeletons, each of the plurality of skeletons serving as a framework for generating a program and having a step area for instructions whose data process procedures are predetermined and a step area for undefined instructions;

display means (200) for displaying characters representing job contents corresponding to the plurality of skeletons stored in said storage means;

10 selecting means (200) for inputting an identification code of a job content displayed on said display means from a keyboard;

15 readout means (200, 100) for reading out any one of the plurality of skeletons in response to the identification code input from said selecting means, the readout skeleton waiting in a program generating section;

20 input request means (100) for displaying and requesting, through said display means, instruction data which is to be set in the step area for the undefined instructions and included in the skeleton waiting in said program generating section; and

25 automatic coding means (100, 500) for converting a program into a machine language after the step area for the undefined instructions of the waiting skeleton is filled with the instruction data.

6. An apparatus according to claim 5, characterized in that said input request means comprises:

30 means (C1 - C5) for sequentially checking program steps of the waiting skeleton to detect whether a flag is present in the program steps;

means (C6) for causing said display means to display an instruction data input request when the flag is detected; and

35 means (C8) for correcting step addresses of the waiting skeleton in accordance with a change in a number of steps when the instruction data is input in response

This is the replacement sheet

Date: 27 SEP 1996



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to the input request.

7. An apparatus according to claim 6, characterized by further comprising:

5 means (C8) for creating an address map representing a correspondence between the step addresses of the waiting skeleton before correction and those after the correction when the step addresses of the waiting skeleton are corrected;

10 means (C4) for detecting a program end instruction of the waiting skeleton;

means (C12) for detecting whether a jump instruction is present in the steps of the waiting skeleton after the program end instruction is detected; and

15 means (C13) for correcting a jump destination address designated by the jump instruction with reference to the address map when the jump instruction is present.

This is the replacement sheet

27 SEP 1996

Date:

Abstract: (FIG. 1)

"AUTOMATIC PROGRAM GENERATING APPARATUS"

A program generating process is a plant-like process to uniformly generate an accurate, error-free program in accordance with an industrial technique, and a design process requires simple jobs to shorten the
5 program generation time. A skeleton file (300) stores skeletons having predetermined formats and constituted by instruction data of fixed process items in regular job contents so as to correspond to different types of job contents. A program generating section (100) inclu-
10 des a unit for reading out a skeleton of a designated format from a workstation (200), a unit for requesting to input predetermined instruction words in undefined instruction areas of the readout skeleton through a display unit in a predetermined order, and a program
15 coding unit for determining that necessary instruction data are input to all the undefined instruction areas of the readout skeleton and causing an automatic coding section (500) to code the resultant structure to obtain a program.

This is the replacement sheet

Date: 27 SEP 1996

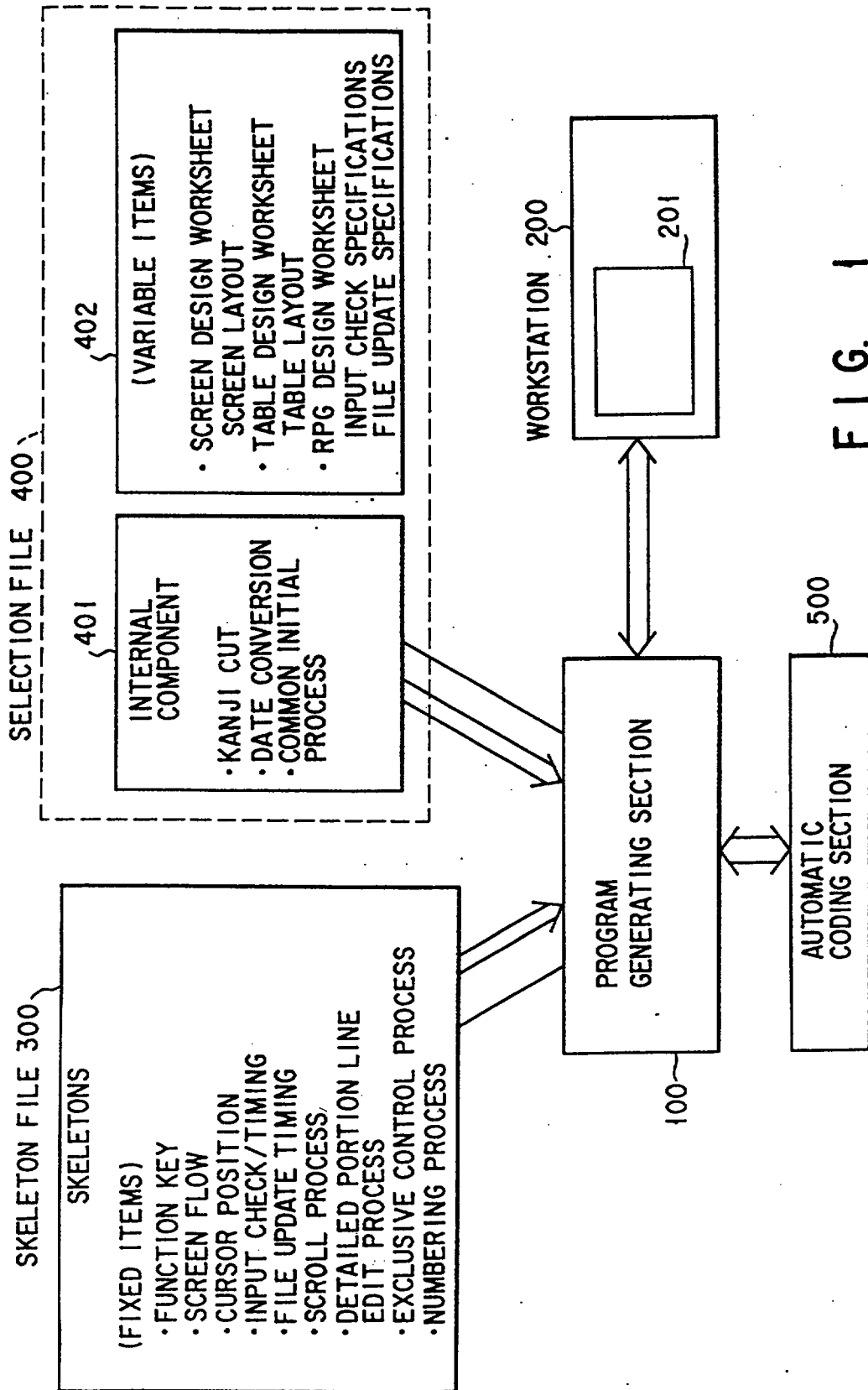


FIG. 1

This is the replacement sheet

Date: 27 SEP 1996

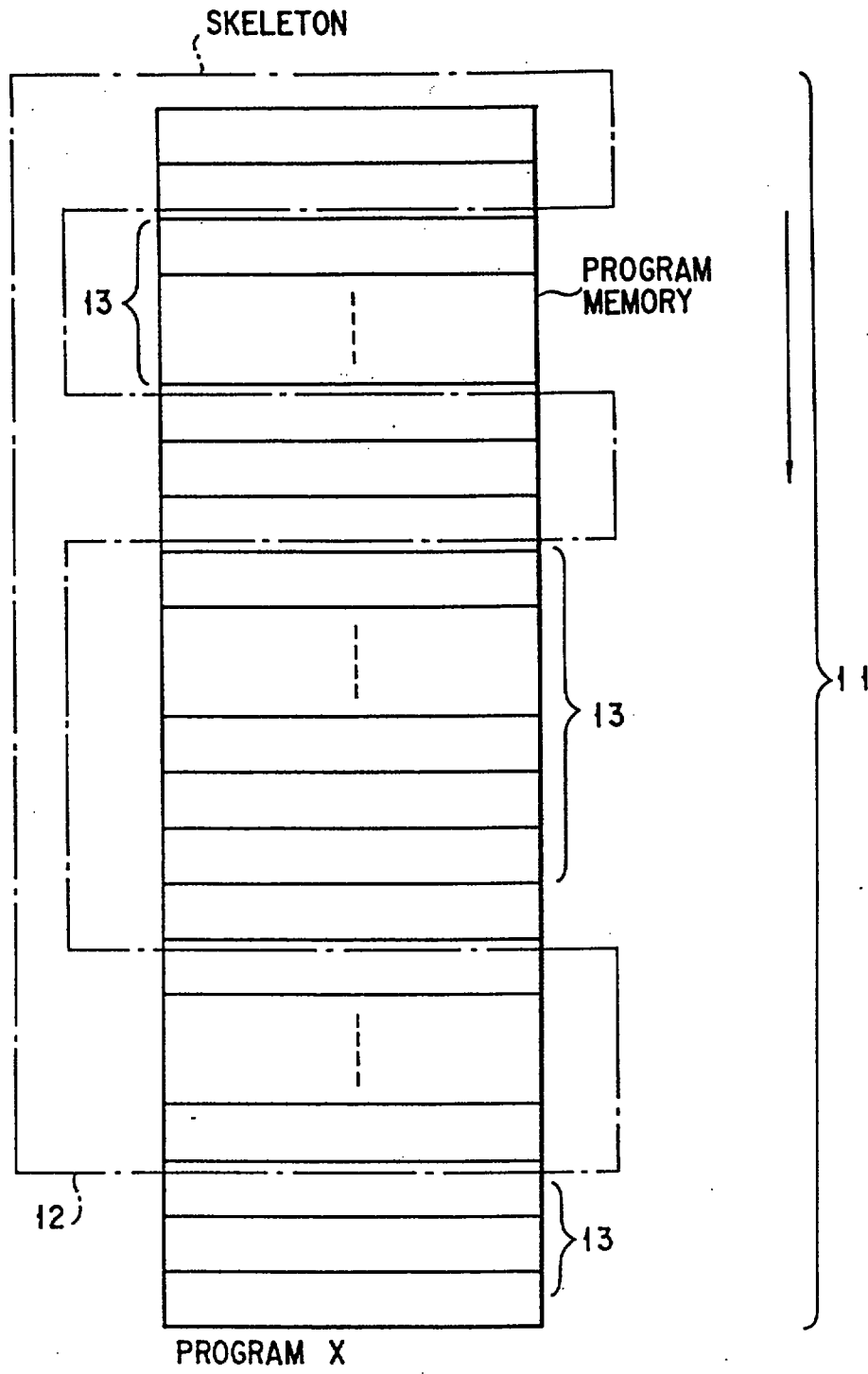


FIG. 2

This is the replacement sheet

Date: 27 SEP 1996

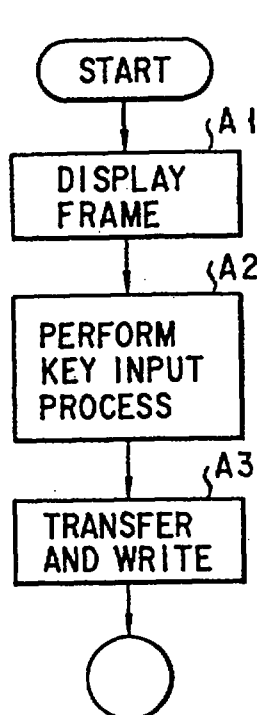


FIG. 3A

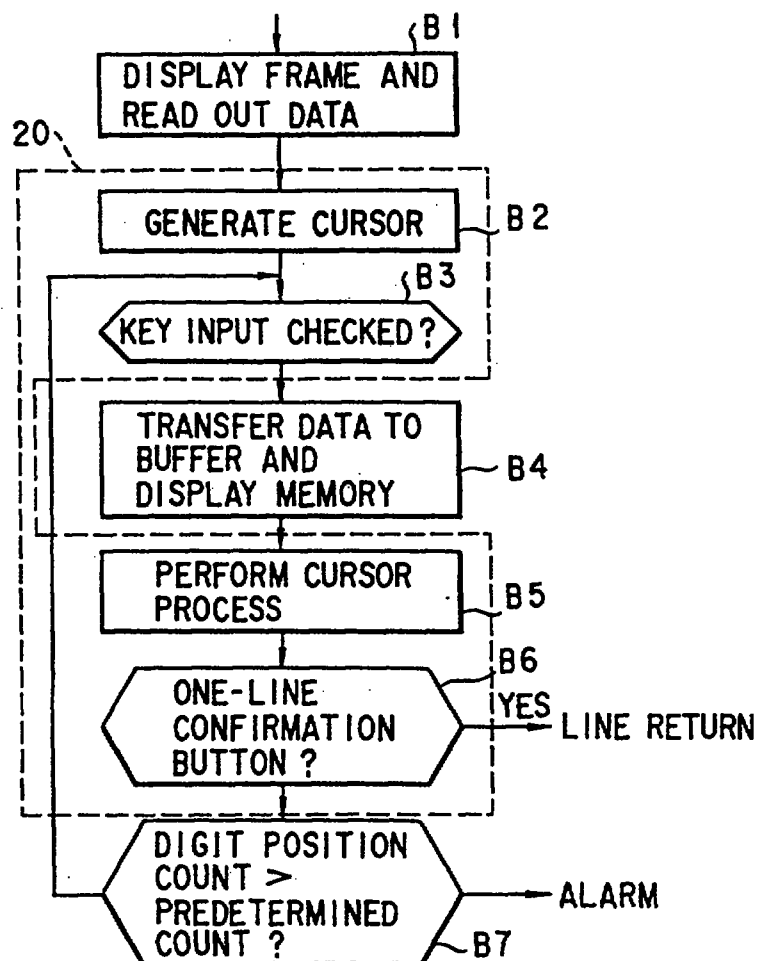


FIG. 3B

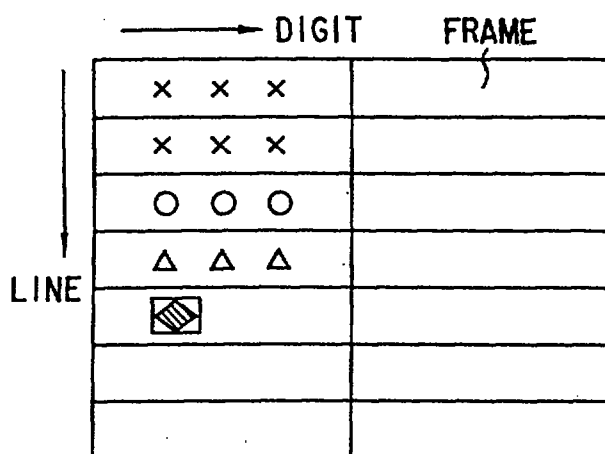


FIG. 3C

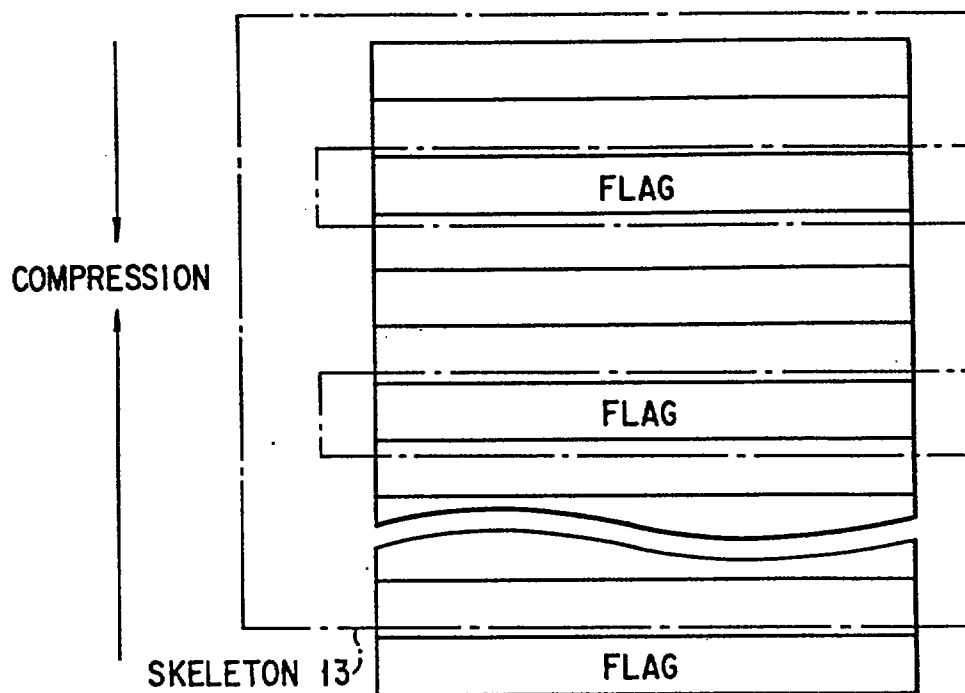


FIG. 4

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27 SEP 1996

Date:

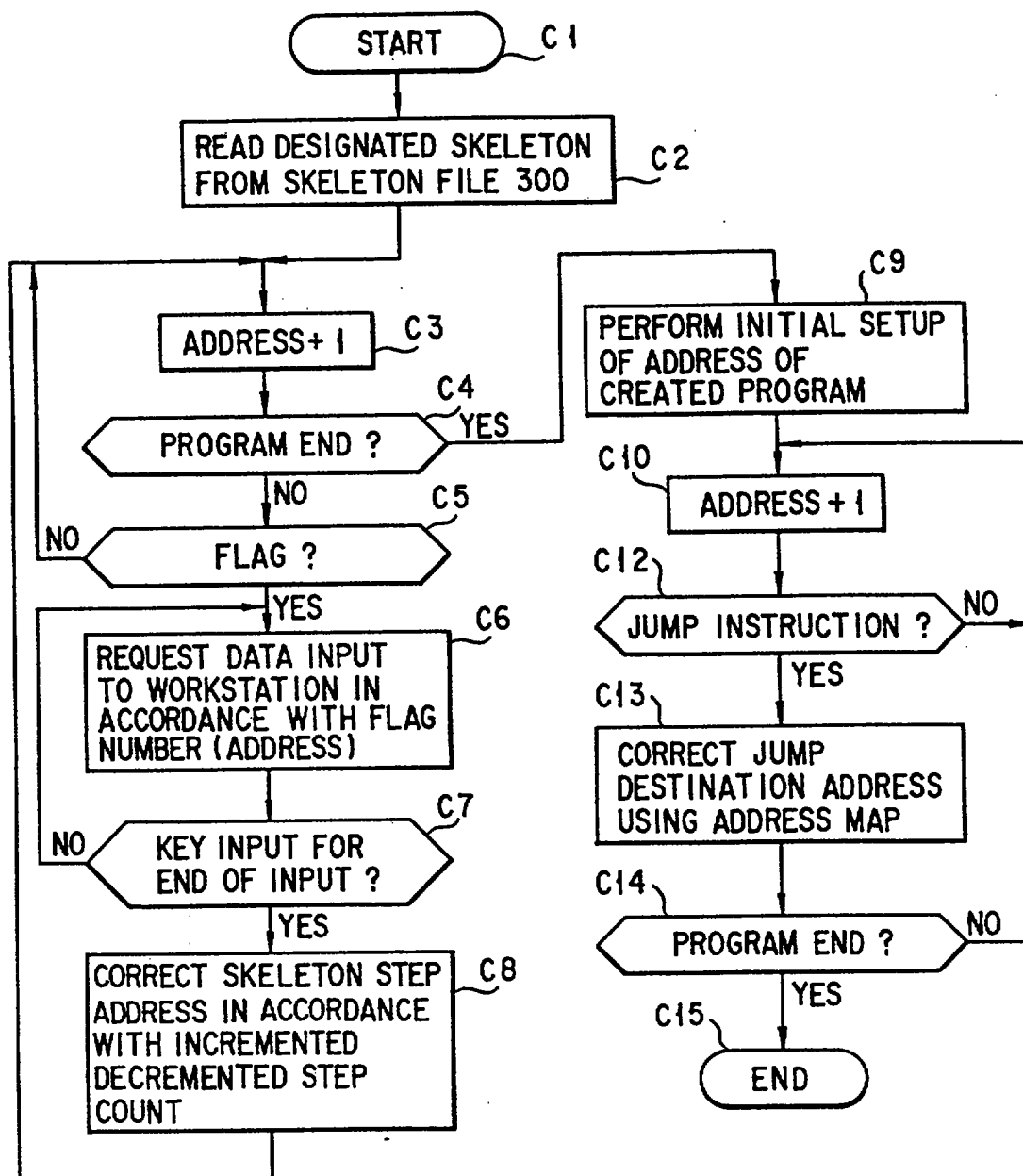


FIG. 5

This is the replacement sheet

Date:

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SKELETON ID: LTO 20	DELET	LIBRARY : * LIBL	SUBROUTINE	PROCESS NAME	DIGIT	SKELETON
1.00						+ 1
2.00						++
3.00						++ CO
4.00						++
5.00						++
6.00						++
7.00						++
8.00						++
9.00						++
10.00						++
11.00						++
12.00						++
13.00						++
14.00						++
15.00						++
16.00						++
17.00						++
18.00						++
19.00						++
20.00						++
21.00						++
22.00						++
23.00						++
24.00						++
25.00						++
26.00						++
27.00						++
28.00						++
29.00						++
30.00						++
31.00						++
32.00						++
33.00						++
34.00						++
35.00						++
36.00						++
37.00						++
38.00						++
39.00						++
40.00						++
41.00						++
42.00						++
43.00						++
44.00						++
45.00						++
46.00						++
47.00						++
48.00						++
49.00						++
50.00						++
51.00						++
52.00						++
53.00						++
54.00						++
55.00						++
56.00						++
57.00						++
58.00						++
59.00						++
60.00						++
61.00						++
62.00						++
63.00						++
64.00						++
65.00						++
66.00						++
67.00						++
68.00						++
69.00						++
70.00						++

FIG. 6

This is the replacement sheet

Date: 27 SEP 1996

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```

<< TABLE (PRINT) >>
92/07.
1 2 3 4 5 6
COPYRIGHT MASAHIKO YONEZAWA.
=====
A R R A Y
=====
+-----+
| CONTROL FLAG DEFINITION |
| WNDATA DATA PRESENCE/ABSENCE FLAG (0:ABSENCE, 1:PRESENCE) |
| WNG CONDITION MATCHING FLAG |
+-----+
+<< CONTROL FLAG >>
WFLG DS
1 0 1 WNDATA
2 0 2 WNG
+-----+
+ WORK FIELD DEFINITION
W8DATE 8-DIGIT DATE (YYYYMMDD)
+-----+
+<< WORK FIELD >>
WKFLD DS
1 0 P 1 50W8DATE
+-----+
+ OVERFLOW VARIABLE DEFINITION
| WLCNT OUTPUT DETAILED COUNTER (VARIABLE AND INITIAL VALUES ARE |
| OVERFLOW LINE COUNTS) |
| WLMAX OVERFLOW LINE COUNT (FIXED) |
| WLGYO ONE-OUTPUT LINE COUNT (DETAILED PORTION) (FIXED) |
| WKGYO ONE-OUTPUT LINE COUNT (EXCEPT FOR DETAILED PORTION) (FIXED) |
| WMES DETAILED PORTION OR NOT (0:DETAILED PORTION, 1:PORTION |
| EXCEPT FOR DETAILED PORTION) |
| WBCNT BLANK LINK OUTPUT COUNTER (VARIABLE) |
| WBMAX DETAILED COUNT BETWEEN BLANK LINES (FIXED) |
| WBGYO ONE-BLANK-LINE COUNT (FIXED) |
+-----+
+<< OVERFLOW VARIABLE >>
WVLV DS
45
45
1
0
0
0
5
1
P 1 20WLCNT
P 3 40WLMAX
P 5 60WLGYO
P 7 80WKGYO
P 9 90WMES
P 10 110WBCNT
P 12 130WBMAX
P 14 150WBGYO

```

```

=====
C< MAIN ROUTINE
C<=====
C< INITIAL MOVELCO1BM CO1BM COPYRIG
C< PROCESS >> EXSR SBINZ INITIAL PROCESS
C<
C< MAIN PROCESS ( UNTIL MAIN FILE EOF ) >>
C< #IN99 DOWEQ=OFF MAIN PROCESS
C< EXSR SBMAIN
C< ENDDO
C< <<END PROCESS >>
C< EXSR SBEND END PROCESS
C<=====

```

FIG. 7

This is the replacement sheet

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```

MEMBER COM311 FILE ORPGSRG LIBRARY PDO12002 )
DESCRIPTION CLIENT MASTER LIST OUTPUT

1.00 H+SSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSS+
2.00 H+
3.00 H# 5798-JDF COPYRIGHT IBM CORP. 1992 LIENSED MATERIAL - *
4.00 H# PROGRAM PROPERTY OF IBM *
5.00 H# REFER TO COPYRIGHT INSTRUCTIONS FORM *
6.00 H# Na N:G120-2083 *
7.00 H+
8.00 H+SSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSS+
9.00 H+
10.00 H+
11.00 H+:CLIENT MASTER LIST OUTPUT *
12.00 H+
13.00 H Y/ 1 *
14.00 F+
15.00 F+ F I L E *
16.00 F+
17.00 F+
18.00 F+<< CLIENT MASTER >>
19.00 FOCMAT IF E K DISK
20.00 F+
21.00 F+<< CLIENT MASTER L F 1 >>
22.00 FOCMATLOIIF E K DISK
23.00 F ATR01 KRENAMEAT01R01
24.00 F+
25.00 F+<< NAME MASTER >>
26.00 FOCMZ IF E K DISK
27.00 F+
28.00 F+<< MASTER FOR MINISTRY OF HOME AFFAIRS >>
29.00 FODMJT IF E K DISK
30.00 F+
31.00 F+<< APPLICATION CONTROL FILE >>
32.00 FODMAP IF E K DISK
33.00 F+
34.00 F+<<
35.00 FDCM311P O E PRINTER *
36.00 F+
37.00 F+ A R R A Y *
38.00 F+
39.00 F+ COIBM 1 1 76 COPYRIGHT IBM
40.00 F+<< SOURCE FILE >> SOURCE FILE
41.00 ST1 256 1
42.00 F+<< EDIT DESTINATION FIELD >>
43.00 ST2 256 1 EDITED
44.00 F+
45.00 F+ D S *
46.00 F+
47.00 F+<< PROGRAM CONDITION >>
48.00 SDS
49.00 #PROGRAM WPID PGM ID
50.00 244 253 WJID JOB ID
51.00 254 263 WUPR USER
52.00 264 269 WJND JOB NO
53.00 F+<< SYSTEM DATE AND TIME >>
54.00 DS
55.00 1 120HMSYMD
56.00 1 60TIME
57.00 7 120DATE
58.00 7 80YEAR
59.00 9 100MONTH
60.00 11 120DAY
61.00 F+<< DATE OF END >>
62.00 DS
63.00 1 60WENDT
64.00 1 20WENYY
65.00 3 40WENMM
66.00 5 60WENDD
67.00 F+<< DATE OF START >>
68.00 DS
69.00 1 60WSTDY
70.00 1 20WSTYY

```

FIG. 8

This is the replacement sheet

Date: 27 SEP 1996

9/62

SKELETON ID:BU010		LIBRARY: X K10102		DIGIT	SKELETON
DELET		SUBROUTINE PROCESS NAME			
1.00					...+ 1 2
2.00					+++++ 1 2
3.00					+++++ 1 2
4.00					+++++ 1 2
5.00					+++++ 1 2
6.00					+++++ 1 2
7.00					+++++ 1 2
8.00					+++++ 1 2
9.00					+++++ 1 2
10.00					+++++ 1 2
11.00					+++++ 1 2
12.00					+++++ 1 2
13.00					+++++ 1 2
14.00					+++++ 1 2
15.00					+++++ 1 2
16.00					+++++ 1 2
17.00					+++++ 1 2
18.00	WNG				+++++ 1 2
19.00					+++++ 1 2
20.00					+++++ 1 2
21.00					+++++ 1 2
22.00					+++++ 1 2
23.00					+++++ 1 2
24.00					+++++ 1 2
25.00					+++++ 1 2
26.00					+++++ 1 2
27.00	WNG				+++++ 1 2
28.00					+++++ 1 2
29.00					+++++ 1 2
30.00					+++++ 1 2
31.00					+++++ 1 2
32.00					+++++ 1 2
33.00					+++++ 1 2
34.00					+++++ 1 2
35.00					+++++ 1 2
36.00					+++++ 1 2
37.00					+++++ 1 2
38.00					+++++ 1 2
39.00					+++++ 1 2
40.00					+++++ 1 2
41.00	CO1BM				+++++ 1 2
42.00					+++++ 1 2
43.00					+++++ 1 2
44.00					+++++ 1 2
45.00					+++++ 1 2
46.00					+++++ 1 2
47.00					+++++ 1 2
48.00					+++++ 1 2
49.00					+++++ 1 2
50.00					+++++ 1 2
51.00					+++++ 1 2
52.00					+++++ 1 2
53.00					+++++ 1 2
54.00					+++++ 1 2
55.00					+++++ 1 2
56.00					+++++ 1 2
57.00					+++++ 1 2
58.00					+++++ 1 2
59.00					+++++ 1 2
60.00					+++++ 1 2
61.00					+++++ 1 2
62.00					+++++ 1 2
63.00					+++++ 1 2
64.00					+++++ 1 2
65.00					+++++ 1 2
66.00					+++++ 1 2
67.00					+++++ 1 2
68.00					+++++ 1 2
69.00					+++++ 1 2
70.00					+++++ 1 2

ES	Y	O
ES	Y	O
ES	Y	O
ES	Y	O
S	Y	O
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S	Y	O
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S	Y	O
S	Y	O
S	Y	O
S	Y	

FIG. 9

This is the replacement sheet

Date: 27 SEP 1996

10/62

BATCH UPDATE (UPDATE CONDITION INPUT) >>

PAGE 1

```

92/08/07 11:42:13
SAHIKO YONEZAWA.
=====
A R R A Y
=====
INF      1      2 78                      CMD
-----+-----
FLAG DEFINITION
TRIGGER FOR SCREEN PROCESS
TRIGGER FOR UPDATE PROCESS
UPDATE PROCESS CONFIRMATION FLAG
SCREEN UPDATE FLAG
SCREEN ERROR FLAG
CONDITION MATCHING FLAG
-----+-----
FLAG  >>
1      10WDSP
2      2  WUPD
3      3  WADD
4      4  WMDT
5      5  WERR
6      6  WNG
=====
P A R M   L I S T
=====
TRANSMISSION
PLIST
PARM      MSGID 7      M S G I D
=====
M A I N   R O U T I N E
=====
MOVELCOIBM      COIBM      COPYRIGHT IBM
EXSR SBINZ      INITIAL SETUP PROCESS
DO #HIVAL
CASE00      SBEND      END PROCESS
CASE01      SB1000     FIRST SCREEN PROCESS
ENDCS
IFED 'U'
EXSR SB0000      UPDATE PROCESS
ENDIF
ENDDD
=====
S U B   R O U T I N E
=====
SBINZ INITIAL SETUP
=====
INITIAL PROCESS BEFORE ANY OTHER PROCESS
-----+-----
BEGSR
SUBFILE INITIALIZATION >>
SETON
CALL 'RMVMSGC'
22

```

MESSAGE REMOVAL

FIG. 10

This is the replacement sheet

Date: 27 SEP 1996

11/62

SKELETON ID:BU020	LIBRARY: K10102	DIGIT	SKELETON
DELET	SUBROUTINE	PROCESS NAME	
1.00			...+-----+-----2
2.00			+++++-----+-----
3.00			+++++COPYRIGHT MA
4.00			+++++-----+-----
5.00			+++++-----+-----
6.00			+++++-----+-----
7.00	ES	YO	+++++-----+-----
8.00	ES	YO	+++++-----+-----
9.00	ES	YO	+++++-----+-----
10.00	WNG	IS	+++++-----+-----
11.00	WNG	IS	+++++-----+-----
12.00	WNG	IS	+++++-----+-----
13.00	WNG	IS	+++++-----+-----
14.00	WNG	IS	+++++-----+-----
15.00	WNG	IS	+++++-----+-----
16.00	WNG	IS	+++++-----+-----
17.00	WNG	IS	+++++-----+-----
18.00	WNG	IS	+++++-----+-----
19.00	WNG	IS	+++++-----+-----
20.00	WNG	IS	+++++-----+-----
21.00	WNG	IS	+++++-----+-----
22.00	WNG	IS	+++++-----+-----
23.00	WNG	IS	+++++-----+-----
24.00	WNG	IS	+++++-----+-----
25.00	WNG	IS	+++++-----+-----
26.00	WNG	IS	+++++-----+-----
27.00	WNG	IS	+++++-----+-----
28.00	WNG	IS	+++++-----+-----
29.00	WNG	IS	+++++-----+-----
30.00	WNG	IS	+++++-----+-----
31.00	WNG	IS	+++++-----+-----
32.00	WNG	IS	+++++-----+-----
33.00	WNG	IS	+++++-----+-----
34.00	WNG	IS	+++++-----+-----
35.00	WNG	IS	+++++-----+-----
36.00	WNG	IS	+++++-----+-----
37.00	WNG	IS	+++++-----+-----
38.00	WNG	IS	+++++-----+-----
39.00	WNG	IS	+++++-----+-----
40.00	WNG	IS	+++++-----+-----
41.00	WNG	IS	+++++-----+-----
42.00	WNG	IS	+++++-----+-----
43.00	WNG	IS	+++++-----+-----
44.00	WNG	IS	+++++-----+-----
45.00	WNG	IS	+++++-----+-----
46.00	WNG	IS	+++++-----+-----
47.00	WNG	IS	+++++-----+-----
48.00	WNG	IS	+++++-----+-----
49.00	WNG	IS	+++++-----+-----
50.00	WNG	IS	+++++-----+-----
51.00	WNG	IS	+++++-----+-----
52.00	WNG	IS	+++++-----+-----
53.00	WNG	IS	+++++-----+-----
54.00	WNG	IS	+++++-----+-----
55.00	WNG	IS	+++++-----+-----
56.00	WNG	IS	+++++-----+-----
57.00	WNG	IS	+++++-----+-----
58.00	WNG	IS	+++++-----+-----
59.00	WNG	IS	+++++-----+-----
60.00	WNG	IS	+++++-----+-----
61.00	WNG	IS	+++++-----+-----
62.00	WNG	IS	+++++-----+-----
63.00	WNG	IS	+++++-----+-----
64.00	WNG	IS	+++++-----+-----
65.00	WNG	IS	+++++-----+-----
66.00	WNG	IS	+++++-----+-----
67.00	WNG	IS	+++++-----+-----
68.00	WNG	IS	+++++-----+-----
69.00	WNG	IS	+++++-----+-----
70.00	WNG	IS	+++++-----+-----

FIG. 11

This is the replacement sheet

Date: 27 SEP 1966

12/62

BATCH UPDATE (UPDATE)

PAGE 1

92/08/07 11:42:31 8

#####3#####4#####5#####6#####7#####8
SAHIKO YONEZAWA.

=====A R R A Y=====

-----+
FLAG DEFINITION
CONDITION MATCHING FLAG
-----+
|

FLAG >>

1 1 WNG

-----+
FIELD DEFINITION
TE 8-DIGIT DATE(YYYYMMDD)
-----+
|

FIELD >>

P 1 50W8DATE

=====+
MAIN ROUTINE
=====+
MOVELCOIBM COIBM COPYRIGHT IBM
EXSR SBINZ INITIAL SETUP PROCESS
PROCESS (UNTIL MAIN FILE EOF)>>
DOWEQ=OFF
EXSR SBMAIN MAIN PROCESS
ENDDO
EXSR SBEND END PROCESS

=====+
SUB ROUTINE
=====+
INITIAL SETUP
=====+
|

INITIAL SETUP BEFORE ANY OTHER PROCESS

BEGSR

FILE LOAD (1 S T) >>
EXSR SBREAD

ENDSR
=====+
N MAIN PROCESS (MAIN PROCESS)
=====+
UNTIL MAIN FILE EOF
-----+
N BEGSR

BREAK KEY INITIAL SETUP >>

FIG. 12

This is the replacement sheet

Date: 27 SEP 1998

13/62

SKELETON ID:ETO10 DELET	LIBRARY:K10102 SUBROUTINE PROCESS NAME	DIGIT	SKELETON
1.00			...+ 1 2
2.00			++
3.00			++
4.00			++
5.00			++
6.00	ES	YO	++
7.00	ES	YO	++
8.00	ES	YO	++
9.00	ES	YO	++
10.00	ES	YO	++
11.00	ES	YO	++
12.00	ES	YO	++
13.00	ES	YO	++
14.00	S	YO	++
15.00	S	YO	++
16.00	S	YO	++
17.00	S	YO	++
18.00	S	YO	++
19.00	S	YO	++
20.00	S	YO	++
21.00	S	YO	++
22.00	S	YO	++
23.00	S	YO	++
24.00	S	YO	++
25.00	S	YO	++
26.00	S	YO	++
27.00	S	YO	++
28.00	S	YO	++
29.00	S	YO	++
30.00	S	YO	++
31.00	S	YO	++
32.00	S	YO	++
33.00	S	YO	++
34.00	S	YO	++
35.00	S	YO	++
36.00	S	YO	++
37.00	S	YO	++
38.00	S	YO	++
39.00	S	YO	++
40.00	S	YO	++
41.00	S	YO	++
42.00	S	YO	++
43.00	S	YO	++
44.00	S	YO	++
45.00	S	YO	++
46.00	S	YO	++
47.00	S	YO	++
48.00	S	YO	++
49.00	S	YO	++
50.00	S	YO	++
51.00	S	YO	++
52.00	S	YO	++
53.00	S	YO	++
54.00	S	YO	++
55.00	S	YO	++
56.00	S	YO	++
57.00	S	YO	++
58.00	S	YO	++
59.00	S	YO	++
60.00	S	YO	++
61.00	S	YO	++
62.00	S	YO	++
63.00	S	YO	++
64.00	S	YO	++
65.00	S	YO	++
66.00	S	YO	++
67.00	S	YO	++
68.00	S	YO	++
69.00	S	YO	++
70.00	S	YO	++

COPYRIGHT MA

<<EXCLUSIVE-
CCWAH UF E

CONTROL -

WDSP
WUPD
WMOD
WCLR
WMDT
WCNL
WADD
WERR
WEPC
WAUT

WDEL

<<CONTROL-
WFLG

DS

1
W
0
0
0
0
0
0
0
0

SUBFILE -

WRRN
WPAG
WMAX
WMCT
WTOP
WBOT
WSTR
WLST
WSET
WELN<< SUBFILE -
WCTR

DS

0
10
50
5
0
0
10
0
0
0SFLPAG 21
SFLMAX 21
SFLLIN 21

START GYO 21

FIG. 13

This is the replacement sheet

Date: 27 SEP 1996

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<< ENTRY-1 (SLIP TYPE PRESENT/ABSENT) >> 92/08/07 11:42:48 PAGE 1

3 4 5 6 7 8

SAHIKO YONEZAWA.

CONTROL FILE >>

K		DISK		A	
A	R	R	A	Y	
TAB1	1	3	1	TAB2	6
INF	1	3	78		

PROCESS SEGMENT
CMD KEY GUIDE

FLAG DEFINITION

TRIGGER FOR IMAGE PROCESS
TRIGGER FOR UPDATE PROCESS
PROCESS MODE
SCREEN CLEAR FLAG
SCREEN CHANGE FLAG
CANCEL FLAG
REGISTRATION CONFIRMATION FLAG
SCREEN ERROR FLAG
CURSOR POSITION ERROR FLAG
AUTOMATIC/MANUAL SLIP NUMBERING FLAG
(0:MANUAL, 1:AUTOMATIC)
DELETE ENABLE/DISABLE FLAG (0:ENABLE, 1:DISABLE)

FLAG >>

1	10WDSP
2	2 WUPD
3	3 WMOD
4	4 WCLR
5	5 WMDT
6	6 WCNL
7	7 WADD
8	8 WERR
9	9 WEPG
10	10 WAUT
11	11 WDEL

COUNTER DEFINITION

SUBFILE RECORD NUMBER
MAXIMUM DISPLAY RECORD COUNT PER SCREEN
MAXIMUM RECORD COUNT OF SUBFILE
ONE-RECORD LINE COUNT OF SUBFILE
FIELD OF CURRENTLY DISPLAYED TOP LINE NUMBER
FIELD OF CURRENTLY DISPLAYED BOTTOM LINE NUMBER
DETAILED START LINE
LAST INPUT LINE NUMBER
CURSOR SET LINE NUMBER
ERROR LINE NUMBER

COUNTER >>

P	1	30WRRN
P	4	50WPAG
P	6	80WMAX
P	9	100WMCT
P	11	130WTOP
P	14	160WBOT
P	17	180WSTR
P	19	210WLST
P	22	240WSET
P	25	270WELN

FIG. 14

This is the replacement sheet

Date: 27 SEP 1996

SKELETON ID: ET050	LIBRARY: K10102	DIGIT	SKELETON
DELET	SUBROUTINE	PROCESS NAME	
1.00			
2.00			
3.00			
4.00			
5.00			
6.00			
7.00	ES	YO	
8.00	ES	YO	
9.00	ES	YO	
10.00	ES	YO	
11.00	ES	YO	
12.00	ES	YO	
13.00	ES	YO	
14.00	ES	YO	
15.00	ES	YO	
16.00	ES	YO	
17.00	ES	YO	
18.00	ES	YO	
19.00	ES	YO	
20.00	ES	YO	
21.00	ES	YO	
22.00	ES	YO	
23.00	ES	YO	
24.00	ES	YO	
25.00	ES	YO	
26.00	ES	YO	
27.00	ES	YO	
28.00	ES	YO	
29.00	ES	YO	
30.00	ES	YO	
31.00	ES	YO	
32.00	ES	YO	
33.00	ES	YO	
34.00	ES	YO	
35.00	ES	YO	
36.00	ES	YO	
37.00	ES	YO	
38.00	ES	YO	
39.00	ES	YO	
40.00	ES	YO	
41.00	ES	YO	
42.00	ES	YO	
43.00	ES	YO	
44.00	ES	YO	
45.00	ES	YO	
46.00	ES	YO	
47.00	ES	YO	
48.00	ES	YO	
49.00	ES	YO	
50.00	ES	YO	
51.00	ES	YO	
52.00	ES	YO	
53.00	ES	YO	
54.00	ES	YO	
55.00	ES	YO	
56.00	ES	YO	
57.00	ES	YO	
58.00	ES	YO	
59.00	ES	YO	
60.00	ES	YO	
61.00	ES	YO	
62.00	ES	YO	
63.00	ES	YO	
64.00	ES	YO	
65.00	ES	YO	
66.00	ES	YO	
67.00	ES	YO	
68.00	ES	YO	
69.00	ES	YO	
70.00	ES	YO	

FIG. 15

This is the replacement sheet

Date: 27 SEP 1996

<< ENTRY-3 (SLIP TYPE ABSENT/ABSENT) >>

92/08/07 11:43:18 PAGE 1

```

+-----+-----+-----+-----+-----+-----+-----+-----+
3         4         5         6         7         8
+-----+-----+-----+-----+-----+-----+-----+

```

SAHIKO YONEZAWA.

CONTROL FILE >>

```

      K      DISK      A
=====
      A  R  R  A  Y
=====
TAB1  1      3  1  TAB2  6      PROCESS SEGMENT
INF   1      3  7  8      CMD KEY GUIDE

```

FLAG DEFINITION

```

TRIGGER FOR IMAGE PROCESS
TRIGGER FOR UPDATE PROCESS
PROCESS MODE
SCREEN CLEAR FLAG
SCREEN CHANGE FLAG
CANCEL FLAG
REGISTRATION CONFIRMATION FLAG
SCREEN ERROR FLAG
INPUT PRESENCE/ABSENCE FLAG
CURSOR POSITION ERROR FLAG
AUTOMATIC/MANUAL SLIP NUMBERING FLAG
(O:MANUAL , I: AUTOMATIC)
DELETE ENABLE/ DISABLE FLAG (O:ENABLE, I:DISABLE)

```

FLAG >>

```

1      10 WDSP
2      2  WUPD
3      3  WMOD
4      4  WCLR
5      5  WMDT
6      6  WCNL
7      7  WADD
8      8  WERR
9      9  WNDA
10     10 WEPC
11     11 WAUT
12     12 WDEL

```

COUNTER DEFINITION

```

SUBFILE RECORD NUMBER
MAXIMUM DISPLAY RECORD COUNT PER SCREEN
MAXIMUM RECORD COUNT OF SUBFILE
ONE-RECORD LINE COUNT OF SUBFILE
FIELD OF CURRENTLY DISPLAYED TOP LINE NUMBER
FIELD OF CURRENTLY DISPLAYED BOTTOM LINE NUMBER
DETAILED START LINE
LAST INPUT LINE NUMBER
CURSOR SET LINE NUMBER
ERROR LINE NUMBER

```

COUNTER >>

```

P      1      30 WRRN
P      4      50 WPAG
P      6      80 WMAX
P      9     100 WMCT
P     11     130 WTOP
P     14     160 WBOT
P     17     180 WSTR
P     19     210 WLST

```

F I G. 16

This is the replacement sheet

Date: 27 SEP 1996

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[illegible]

FIG. 17

This is the replacement sheet

Date: 27 SEP 1996

<< ENTRY-7 (DETAIL KEY INPUT TYPE) >>

92/08/07 11:43:51 PAGE 1

SAHIKO YONEZAWA.

CONTROL FILE >>

K		DISK		A	
A	R	R	A	Y	
TAB1	1	2	1	TAB2	6
INF	1	3	78		

PROCESS SEGMENT
CMD KEY GUIDE

FLAG DEFINITION

TRIGGER FOR IMAGE PROCESS
 TRIGGER FOR UPDATE PROCESS
 PROCESS MODE
 SCREEN CLEAR FLAG
 SCREEN CHANGE FLAG
 CANCEL FLAG
 REGISTRATION CONFIRMATION FLAG
 SCREEN ERROR FLAG
 CURSOR POSITION ERROR FLAG
 DELETE ENABLE/DISABLE FLAG (0:ENABLE,1:DISABLE)
 UPDATE END FLAG
 OVERLAP CHECK END FLAG

FLAG >>

1	10WDSP
2	2 WUPD
3	3 WMOD
4	4 WCLR
5	5 WMDT
6	6 WCNL
7	7 WADD
8	8 WERR
9	9 WEPD
10	10 WDEL
11	11 WEND
12	12 WEDP

COUNTER DEFINITION

SUBFILE RECORD NUMBER
 MAXIMUM DISPLAY RECORD COUNT PER SCREEN
 MAXIMUM RECORD COUNT OF SUBFILE
 ONE-RECORD LINE COUNT OF SUBFILE
 FIELD OF CURRENTLY DISPLAYED TOP LINE NUMBER
 FIELD OF CURRENTLY DISPLAYED BOTTOM LINE NUMBER
 DETAILED START LINE
 LAST INPUT LINE NUMBER
 CURSOR SET LINE NUMBER
 ERROR LINE NUMBER

COUNTER >>

P	1	30WRRN
P	4	50WPAG
P	6	80WMAX
P	9	100WMCT
P	11	130WTOP
P	14	160WBOT
P	17	180WSTR
P	19	210WLST
P	22	240WSET

FIG. 18

This is the replacement sheet

Date: 27 SEP 1995

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SKELETON ID: LTOIO DELET	LIBRARY: KIO102 SUBROUTINE PROCESS NAME	DIGIT	SKELETON
1.00			... 1 2
2.00			+++
3.00			+++
4.00			+++
5.00			+++
6.00			+++
7.00			+++
8.00			+++
9.00			+++
10.00			+++
11.00			+++
12.00			+++
13.00			+++
14.00			+++
15.00			+++
16.00			+++
17.00			+++
18.00			+++
19.00			+++
20.00			+++
21.00			+++
22.00			+++
23.00			+++
24.00			+++
25.00			+++
26.00			+++
27.00			+++
28.00			+++
29.00			+++
30.00			+++
31.00			+++
32.00			+++
33.00			+++
34.00			+++
35.00			+++
36.00			+++
37.00			+++
38.00			+++
39.00			+++
40.00			+++
41.00			+++
42.00			+++
43.00			+++
44.00			+++
45.00			+++
46.00			+++
47.00			+++
48.00			+++
49.00			+++
50.00			+++
51.00			+++
52.00			+++
53.00			+++
54.00			+++
55.00			+++
56.00			+++
57.00			+++
58.00			+++
59.00			+++
60.00			+++
61.00			+++
62.00			+++
63.00			+++
64.00			+++
65.00			+++
66.00			+++
67.00			+++
68.00			+++
69.00			+++
70.00			+++

F I G. 19

This is the replacement sheet

Date: 27 SEP 1995

<< TABLE (OUTPUT CONDITION INPUT) >>

92/08/07 11:44:23 PAGE 1

```

#####3#####4#####5#####6#####7#####8
SAHIKO YONEZAWA.
#####
=====
A R R A Y
=====
INF 1 1 78
=====
CMD KEY GUIDE

```

-----+
FLAG DEFINITION

```

TRIGGER FOR IMAGE PROCESS
TRIGGER FOR UPDATE PROCESS
SCREEN CHANGE FLAG
SCREEN ERROR FLAG
CURSOR POSITION ERROR FLAG
CONDITION MATCHING FLAG

```

FLAG >>

```

: 1 10WDSP
: 2 2 WUPD
: 3 3 WMDT
: 4 4 WERR
: 5 5 WEPC
: 6 6 WNG
=====
P A R M L I S T
=====

```

TRANSMISSION >>

```

PLIST
PARM MSGID 7 MSGID

```

=====+
MAIN ROUTINE

```

=====+
MOVELCOIBM COIBM COPYRIGHT IBM
EXSR SBINZ INITIAL SETUP PROCESS
DO +HIVAL
CASE00 SBEND END PROCESS
CASE01 SB1000 FIRST SCREEN PROCESS
ENDCS

```

```

IFEQ 'U'
EXSR SB0000 UPDATE PROCESS
ENDIF
ENDDO

```

=====+
SUB ROUTINE

```

=====+
SBINZ INITIAL SETUP
=====+

```

```

=====+
INITIAL SETUP BEFORE ANY OTHER PROCESS
=====+

```

BEGSR

SUBFILE INITIALIZATION >>

```

SETON
CALL 'RMVMSGC'

```

22

MESSAGE REMOVAL

FIG. 20

This is the replacement sheet

Date: 27 SEP 1996

21/62

SKELETON ID: LT020	LIBRARY: K10102	DIGIT	SKELETON
DELET	SUBROUTINE PROCESS NAME		
1.00			... 1 2
2.00			*****
3.00			++
4.00			++ COPYRIGHT MA
5.00			++
6.00			*****
7.00			*****
8.00			*****
9.00			*****
10.00			*****
11.00			*****
12.00			*****
13.00			*****
14.00			*****
15.00			*****
16.00			*****
17.00			*****
18.00			*****
19.00			*****
20.00			*****
21.00			*****
22.00			*****
23.00			*****
24.00			*****
25.00			*****
26.00			*****
27.00			*****
28.00			*****
29.00			*****
30.00			*****
31.00			*****
32.00			*****
33.00			*****
34.00			*****
35.00			*****
36.00			*****
37.00			*****
38.00			*****
39.00			*****
40.00			*****
41.00			*****
42.00			*****
43.00			*****
44.00			*****
45.00			*****
46.00			*****
47.00			*****
48.00			*****
49.00			*****
50.00			*****
51.00			*****
52.00			*****
53.00			*****
54.00			*****
55.00			*****
56.00			*****
57.00			*****
58.00			*****
59.00			*****
60.00			*****
61.00			*****
62.00			*****
63.00			*****
64.00			*****
65.00			*****
66.00			*****
67.00			*****
68.00			*****
69.00			*****
70.00			*****

FIG. 21

This is the replacement sheet

Date: 27 SEP 1996

TABLE (PRINT) >>

92/08/07 11:44:38 PAGE 1

```

+-----+
| 1 2 3 4 5 6 7 8 |
+-----+
| SAHIKO YONEZAWA. |
+-----+
| A R R A Y        |
+-----+

```

-----+
FLAG DEFINITIONINPUT PRESENCE/ABSENCE FLAG (0:ABSENCE:PRESENT)
CONDITION MATCHING FLAG-----+
FLAG >>

```

+-----+
| 1 2 1 WND A      |
| 2 2 WNG          |
+-----+

```

-----+
FIELD DEFINITION

8-DIGIT DATE (YYYYMMDD)

-----+
FIELD >>

P 1 50W8DATE

-----+
VARIABLES DEFINITION

```

+-----+
| OUTPUT DETAILED COUNTER (VARIABLE AND INITIAL VALUES |
| ARE OVERFLOW LINE COUNTS)                             |
| OVERFLOW LINE COUNT (FIXED)                           |
| ONE-OUTPUT LINE COUNT (DETAILED PORTION) (FIXED)      |
| ONE-OUTPUT LINE COUNT (EXCEPT FOR DETAILED PORTION) (FIXED) |
| DETAILED PORTION OR NOT (0:DETAILED PORTION,         |
| 1:PORTION EXCEPT FOR DETAILED PORTION)              |
| BLANK LINE OUTPUT COUNTER (VARIABLE)                  |
| DETAILED COUNT BETWEEN BLANK LINES (FIXED)           |
| ONE-BLANK-LINE COUNT (FIXED)                          |
+-----+

```

VARIABLES >>

```

+-----+
| P 1 20WLCNT      |
| P 3 40WLMAX      |
| P 5 60WLGYO      |
| P 7 80WKGYO      |
| P 9 90WMES        |
| P 10 110WBCNT     |
| P 12 130WBMAY     |
| P 14 150WBGYO     |
+-----+

```

-----+
MAIN ROUTINE-----+
MOVELCO1BM CO1BM COPYRIGHT 1BM

EXSR SBINZ

INITIAL SETUP PROCESS

(UNTIL MAIN FILE EOF)

>>

DOWEQ#OFF
EXSR SBMAIN
ENDDO

MAIN PROCESS

EXSR SBEND

END PROCESS

FIG. 22

This is the replacement sheet

Date: 27 SEP 1996

23/62

SKELETON ID:LT021	DELET	LIBRARY:K10102	SUBROUTINE	PROCESS NAME	DIGIT	SKELETON
1.00						...+ 1 2 ..
2.00						+++++
3.00						+++++
4.00						+++++
5.00						+++++
6.00						+++++
7.00						+++++
8.00						+++++
9.00						+++++
10.00						+++++
11.00						+++++
12.00						+++++
13.00						+++++
14.00						+++++
15.00						+++++
16.00						+++++
17.00						+++++
18.00						+++++
19.00						+++++
20.00						+++++
21.00						+++++
22.00						+++++
23.00						+++++
24.00						+++++
25.00						+++++
26.00						+++++
27.00						+++++
28.00						+++++
29.00						+++++
30.00						+++++
31.00						+++++
32.00						+++++
33.00						+++++
34.00						+++++
35.00						+++++
36.00						+++++
37.00						+++++
38.00						+++++
39.00						+++++
40.00						+++++
41.00						+++++
42.00						+++++
43.00						+++++
44.00						+++++
45.00						+++++
46.00						+++++
47.00						+++++
48.00						+++++
49.00						+++++
50.00						+++++
51.00						+++++
52.00						+++++
53.00						+++++
54.00						+++++
55.00						+++++
56.00						+++++
57.00						+++++
58.00						+++++
59.00						+++++
60.00						+++++
61.00						+++++
62.00						+++++
63.00						+++++
64.00						+++++
65.00						+++++
66.00						+++++
67.00						+++++
68.00						+++++
69.00						+++++
70.00						+++++

FIG. 23

This is the replacement sheet

Date: 27 SEP 1996

TABLE (PRINT WITH DETAILED PORTION)

92/08/07 11:45:01 PAGE 1

```

=====+=====+=====+=====+=====+=====+=====+=====+
3      4      5      6      7      8
SAHIKO YONEZAWA.
=====+=====+=====+=====+=====+=====+=====+=====+
A R R A Y
=====+=====+=====+=====+=====+=====+=====+=====+

```

-----+-----+ FLAG DEFINITION

INPUT PRESENCE/ABSENCE FLAG (0:ABSENT, 1:PRESENT)
 CONDITION MATCHING FLAG
 -----+-----+

FLAG >>

```

      1      1 WND A
      2      2 WNG

```

-----+-----+ FIELD DEFINITION

8-DIGIT DATE (YYYYMMDD)
-----+-----+

FIELD >>

P 1 50W8DATE

-----+-----+ VARIABLE DEFINITION

 OUTPUT DETAILED COUNTER (VARIABLE AND INITIAL VALUES
 ARE OVERFLOW LINE COUNTS)
 OVERFLOW LINE COUNTS (FIXED)
 ONE-OUTPUT LINE COUNT (DETAILED PORTION) (FIXED)
 ONE-OUTPUT LINE COUNT (HEAD) (FIXED)
 ONE-OUTPUT LINE COUNT (EXCEPT FOR DETAILED PORTION) (FIXED)
 DETAILED PORTION OR NOT (0:DETAILED PORTION,
 1:PORTION EXCEPT FOR DETAILED PORTION, 2:HEAD)
 BLANK LINE OUTPUT COUNTER (VARIABLE)
 DETAILED COUNT BETWEEN BLANK LINES (FIXED)
 ONE-BLANK-LINE COUNT (FIXED)
 -----+-----+

VARIABLE >>

```

P      1      20WLCNT
P      3      40WLMAX
P      5      60WLGYO
P      7      80WHGYO
P      9      100WKGYO
P     10      110WMES
P     12      130WBCNT
P     14      150WBMAY
P     16      170WBGYO

```

=====+=====+=====+=====+ MAIN ROUTINE =====+=====+=====+=====+

MOVELCO1BM CO1BM COPYRIGHT 1BM

EXSR SBINZ

INITIAL SETUP PROCESS

(UNTIL MAIN FILE EOF) >>

DOWEOFF

EXSR SBMAIN

MAIN PROCESS

ENDDO

FIG. 24

This is the replacement sheet

Date: 27 SEP 1996

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SKELETON ID:LT030	LIBRARY:KIOJ02	DIGIT	SKELETON
DELET	SUBROUTINE	PROCESS NAME	
1.00			...+.....1.....+.....2.....
2.00			+++++.....
3.00			+++++COPYRIGHT MA
4.00			+++++.....
5.00			+++++.....
6.00	ES	YO	+++++.....
7.00	ES	YO	+++++.....
8.00	ES	YO	+++++.....
9.00	WNG	YO	+++++.....
10.00	WNG	YO	+++++.....
11.00	WNG	YO	+++++.....
12.00	WNG	YO	+++++.....
13.00	WNG	YO	+++++.....
14.00	WNG	YO	+++++.....
15.00	WNG	YO	+++++.....
16.00	WNG	YO	+++++.....
17.00	WNG	YO	+++++.....
18.00		YO	+++++.....
19.00		YO	+++++.....
20.00		YO	+++++.....
21.00		YO	+++++.....
22.00		YO	+++++.....
23.00		YO	+++++.....
24.00		YO	+++++.....
25.00		YO	+++++.....
26.00		YO	+++++.....
27.00	PL	ST	+++++.....
28.00	KL	ST	+++++.....
29.00	MAIN		+++++.....
30.00	MAIN		+++++.....
31.00	MAIN		+++++.....
32.00	MAIN		+++++.....
33.00	COIBM		+++++.....
34.00	MAIN		+++++.....
35.00	MAIN		+++++.....
36.00	MAIN		+++++.....
37.00	MAIN		+++++.....
38.00	MAIN		+++++.....
39.00	MAIN		+++++.....
40.00	MAIN		+++++.....
41.00	MAIN		+++++.....
42.00	MAIN		+++++.....
43.00	MAIN		+++++.....
44.00	MAIN		+++++.....
45.00	MAIN		+++++.....
46.00	MAIN		+++++.....
47.00	SB	NZ	+++++.....
48.00	SB	NZ	+++++.....
49.00	SB	NZ	+++++.....
50.00	SB	NZ	+++++.....
51.00	SB	NZ	+++++.....
52.00	SB	NZ	+++++.....
53.00	SB	NZ	+++++.....
54.00	SB	NZ	+++++.....
55.00	SB	NZ	+++++.....
56.00	SB	NZ	+++++.....
57.00	SB	NZ	+++++.....
58.00	SB	NZ	+++++.....
59.00	SB	NZ	+++++.....
60.00	SB	NZ	+++++.....
61.00	SB	NZ	+++++.....
62.00	BRK1	SBMAIN	+++++.....
63.00	BRK1	SBMAIN	+++++.....
64.00	BRK1	SBMAIN	+++++.....
65.00	BRK1	SBMAIN	+++++.....
66.00	BRK1	SBMAIN	+++++.....
67.00	BRK1	SBMAIN	+++++.....
68.00	BRK1	SBMAIN	+++++.....
69.00	BRK1	SBMAIN	+++++.....
70.00	BRK1	SBMAIN	+++++.....

F I G. 25

This is the replacement sheet

Date: 127 SEP 1996

<<TABLE (ACCUMULATION) >>

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1. 2. 3. 4. 5. 6. 7. 8.

SAHIKO YONEZAWA.

A R R A Y

FLAG DEFINITION
CONDITION MATCHING FLAG

FLAG >>

1 1 WING

FIELD DEFINITION
8-DIGIT DATE (YYYYMMDD)

FIELD >>

P 1 50W8DATE

```
MAIN ROUTINE
```

MODEL CO IBM CO IBM COPYRIGHT IBM

EXSR SBINZ

INITIAL SETUP PROCESS

```
(UNTIL MAIN FILE EOF)    >>
```

DOWEQ=OFF

MAIN PROCESS

EXSR SBMA 11N

ENDDD

EXSR SBEND

END PROCESS

SUBROUTINE

```
-----  
SBINZ INITIAL SETUP
```

INITIAL SETUP BEFORE ANY OTHER PROCESS

BEGSR

```
FILE LOAD ( 1 S T ) >>
EXSR SBREAD
```

ENDSR

MAIN PROCESS (MAIN PROCESS)

MAIN FILE UNTIL EOF

BEGSR

BREAK KEY INITIAL PROCESS >>

FIG. 26

This is the replacement sheet

Date: 27 SEP 1996

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SKELETON ID:LT040
DELET

LIBRARY:KI0102
SUBROUTINE PROCESS NAME

DIGIT

SKELETON

1.	00
2.	00
3.	00
4.	00
5.	00
6.	00
7.	00
8.	00
9.	00
10.	00
11.	00
12.	00
13.	00
14.	00
15.	00
16.	00
17.	00
18.	00
19.	00
20.	00
21.	00
22.	00
23.	00
24.	00
25.	00
26.	00
27.	00
28.	00
29.	00
30.	00
31.	00
32.	00
33.	00
34.	00
35.	00
36.	00
37.	00
38.	00
39.	00
40.	00
41.	00
42.	00
43.	00
44.	00
45.	00
46.	00
47.	00
48.	00
49.	00
50.	00
51.	00
52.	00
53.	00
54.	00
55.	00
56.	00
57.	00
58.	00
59.	00
60.	00
61.	00
62.	00
63.	00
64.	00
65.	00
66.	00
67.	00
68.	00
69.	00
70.	00

WNG

WNG

CO 1 BM

[illegible]

SFLPAG

PLIST COMMON

KLIST COMMON
MAKING NG

21

```

1 2
COPYRIGHT MA

CONTROL-
WDSP
WMDT
WERR
WEPC
WNSA
WNG

<< CONTROL-
WFLG DS
1
0
0
0
0

SUBFILE-
WRRN
WPAG
WMAX
WCRN
WCNT
WCMP
WORD

<< SUBFILE-
WCTR DS
0
12
0
0
0
0
0

C=====
C+
C=====
C+<< MESSAGE-
C PLMSG
C

C=====
C+
C=====
C+<< INITIAL SETUP >>
C+
C+<< SCREEN
C+ PROCESS >>
C WDSP
C WDSP
C WDSP(

```

FIG. 27

This is the replacement sheet.

Date:

27 SEP 1996

<<TABEL (CONDITION INPUT & LIST REFERENCE) >> 92/08/07 11:45:38 PAGE 1

```

+-----+-----+-----+-----+-----+-----+-----+-----+
3      4      5      6      7      8

```

SAHIKO YONEZAWA.

```

=====+=====+=====+=====+=====+=====+=====+=====+
A      R      R      A      Y
=====+=====+=====+=====+=====+=====+=====+=====+
INF      1      2      78

```

CMD KEY GUIDE

```

-----+-----+
FLAG DEFINITION
TRIGGER FOR IMAGE PROCESS
SCREEN CHANGE FLAG
SCREEN ERROR FLAG
CURSOR POSITION ERROR FLAG
INPUT PRESENCE/ABSENCE FLAG (0:ABSENT, 1:PRESENT)
CONDITION MATCHING FLAG
-----+-----+

```

FIELD >>

```

1      10WDSP
2      2 WMDT
3      3 WERR
4      4 WPC
5      5 WNDA
6      6 WNG

```

```

-----+-----+
COUNTER DEFINITION
SUBFILE RECORD NUMBER
MAXIMUM DISPLAY RECORD COUNT PER SCREEN
MAXIMUM RECORD COUNT OF SUBFILE
CURRENTLY MAXIMUM RECORD COUNT (VARIABLE)
SUBFILE OUTPUT COUNT PER SCREEN
LOADED RECORD COUNT
DATA WRITE COUNT PER SCREEN
-----+-----+

```

COUNTER >>

```

P      1      30WRRN.
P      4      50WPAG
P      6      80WMAX
P      9      110WCRN
P     12      130WCNT
P     14      160WCMP
P     17      180WDRD

```

```

=====+=====+
P A R M   L I S T
=====+=====+

```

TRANSMISSION >>

```

PLIST
PARM      MSGID      7      M S G I D

```

```

-----+-----+
M A I N   R O U T I N E
-----+-----+

```

```

MOVELCO1BM      CO1BM      COPYRIGHT 13M
EXSR SBINZ      INITIAL SETUP PROCESS
DO #HIVAL

```

```

CASE00      SBEND      END PROCESS
CASE01      SB1000     FIRST SCREEN PROCESS
CASE02      SB2000     SECOND SCREEN PROCESS

```

F I G. 28

This is the replacement sheet

Date: 27 SEP 1996

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[illegible]

FIG. 29

This is the replacement sheet

Date: 27 SEP 1996

<<MASTER MAINTENANCE I (NO COPY SOURCE) >>

92/08/07 11:45:52 PAGE 1

```

=====
3 4 5 6 7 8
=====

```

SAHIKO YONEZAWA.

```

=====
A R R A Y
=====
TAB1 1 4 1 TAB2 6 PROCESS SEGMENT
INF 1 2 78 CMD KEY GUIDE

```

```

-----
FLAG DEFINITION
TRIGGER FOR IMAGE PROCESS
TRIGGER FOR UPDATE PROCESS
PROCESS MODE
SCREEN CLEAR FLAG
SCREEN CHANGE FLAG
CANCEL FLAG
REGISTRATION CONFIRMATION FLAG
SCREEN ERROR FLAG
CURSOR POSITION ERROR FLAG
-----

```

FLAG >>

```

1 10WDSP
2 WUPD
3 WMOD
4 WCLR
5 WMDT
6 WCNL
7 WADD
8 WERR
9 WEPG

```

```

-----
FIELD
8-DIGIT DATE (YYYYMMDD)
-----

```

FIELD >>

P 1 50W8DATE

```

=====
P A R M L I S T
=====

```

TRANSMISSION >>

```

PLIST
PARM MSGID 7 MSGID

PLIST
PARM P0MOD 1 MODE

```

```

=====
M A I N R O U T I N E
=====

```

```

=====
MOVE LCO1BM CO1BM COPYRIGHT 1BM
EXSR SBINZ INITIAL SETUP PROCESS
DO #HIVAL

CASE00 SBEND END PROCESS
CASE01 SB1000 FIRST SCREEN PROCESS
CASE02 SB2000 SECOND SCREEN PROCESS
ENDCS

```

FIG. 30

This is the replacement sheet

Date: 27 SEP 1996

SKELETON ID:MMOH	DELET	LIBRARY:KI0102	SUBROUTINE	PROCESS NAME	DIGIT	SKELETON
1.00						
2.00						
3.00						
4.00						
5.00						
6.00						
7.00						
8.00						
9.00						
10.00						
11.00						
12.00						
13.00						
14.00						
15.00						
16.00						
17.00						
18.00						
19.00						
20.00						
21.00						
22.00						
23.00						
24.00						
25.00						
26.00						
27.00						
28.00						
29.00						
30.00						
31.00						
32.00						
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34.00						
35.00						
36.00						
37.00						
38.00						
39.00						
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41.00						
42.00						
43.00						
44.00						
45.00						
46.00						
47.00						
48.00						
49.00						
50.00						
51.00						
52.00						
53.00						
54.00						
55.00						
56.00						
57.00						
58.00						
59.00						
60.00						
61.00						
62.00						
63.00						
64.00						
65.00						
66.00						
67.00						
68.00						
69.00						
70.00						

FIG. 31

This is the replacement sheet

Date: 27 SEP 1996

<< MASTER MAINTENANCE (WITH COPY SOURCE) >>

92/08/07 11:46:12 PAGE 1

#####3#####4#####5#####6#####7#####8

SAHIKO YONEZAWA.

#####

=====

```

=====
A   R   R   A   Y
=====
TAB1      1      4      1      TAB2      6      PROCESS SEGMENT
INF      1      2 78      CMD KEY GUIDE
=====

```

-----+ FLAG DEFINITION

```

TRIGGER FOR IMAGE PROCESS
TRIGGER FOR UPDATE PROCESS
PROCESS MODE
SCREEN CLEAR FLAG
SCREEN CHANGE FLAG
CANCEL FLAG
REGISTRATION CONFIRMATION FLAG
SCREEN ERROR FLAG
CURSOR POSITION ERROR FLAG
-----+

```

FLAG >>

```

1      10 WDSP
2      2  WUPD
3      3  WMOD
4      4  WCLR
5      5  WMDT
6      6  WCNL
7      7  WADD
8      8  WERR
9      9  WEPC

```

-----+ FIELD DEFINITION

8-DIGIT DATE (YYYYMMDD)

FIELD >>

```

P      1      50W8DATE
=====
P A R M   L I S T
=====

```

TRANSMISSION >>

```

PLIST
P A R M      MSGID      7      M S G I D

PLIST
P A R M      P@MOD      1      M O D E

```

-----+ MAIN ROUTINE

```

=====
MOVE LCO1BM      CO1BM      COPYRIGHT IBM
EXSR SBINZ      INITIAL SETUP PROCESS
DO #HIVAL

CASE00      SBEND      END PROCESS
CASE01      SB1000     FIRST SCREEN PROCESS
CASE02      SB2000     SECOND SCREEN PROCESS
ENDCS

```

F I G. 32

This is the replacement sheet.

Date: 27 SEP 1996

SKELETON ID:MM020 DELET	LIBRARY:KIO102 SUBROUTINE PROCESS NAME	DIGIT	SKELETON
1.00			... 1 2
2.00			*****
3.00			*****
4.00			*****
5.00			*****
6.00			*****
7.00	ES	YO	*****
8.00	ES	YO	*****
9.00	ES	YO	*****
10.00	ES	YO	*****
11.00	S	YO	*****
12.00	S	YO	*****
13.00	S	YO	*****
14.00	S	YO	*****
15.00	S	YO	*****
16.00	S	YO	*****
17.00	S	YO	*****
18.00	S	YO	*****
19.00	S	YO	*****
20.00	S	YO	*****
21.00	S	YO	*****
22.00	S	YO	*****
23.00	S	YO	*****
24.00	S	YO	*****
25.00	S	YO	*****
26.00	S	YO	*****
27.00	S	YO	*****
28.00	S	YO	*****
29.00	S	YO	*****
30.00	S	YO	*****
31.00	S	YO	*****
32.00	S	YO	*****
33.00	S	YO	*****
34.00	S	YO	*****
35.00	S	YO	*****
36.00	S	YO	*****
37.00	S	YO	*****
38.00	S	YO	*****
39.00	S	YO	*****
40.00	S	YO	*****
41.00	S	YO	*****
42.00	S	YO	*****
43.00	S	YO	*****
44.00	S	YO	*****
45.00	S	YO	*****
46.00	S	YO	*****
47.00	PL	ST	*****
48.00	PL	ST	*****
49.00	PL	ST	*****
50.00	PL	ST	*****
51.00	PL	ST	*****
52.00	PL	ST	*****
53.00	PL	ST	*****
54.00	PL	ST	*****
55.00	PL	ST	*****
56.00	PL	ST	*****
57.00	KL	ST	*****
58.00	MA	N	*****
59.00	MA	N	*****
60.00	MA	N	*****
61.00	MA	N	*****
62.00	MA	N	*****
63.00	MA	N	*****
64.00	MA	N	*****
65.00	MA	N	*****
66.00	MA	N	*****
67.00	MA	N	*****
68.00	MA	N	*****
69.00	MA	N	*****
70.00	MA	N	*****

F I G. 33

This is the replacement sheet

Date: 27 SEP 1996

<< MASTER MAINTENANCE2 (WITH COPY SOURCE) >>

92/08/07 11:45:29 PAGE 1

```

#####3#####4#####5#####6#####7#####8
#####

```

SAHIKO YONEZAWA.

```

#####
=====

```

A R R A Y

```

=====
TAB1 1 4 1 TAB2 6 PROCESS SEGMENT
INF 1 3 78 CMD-KEY GUIDE

```

FLAG DEFINITION

```

TRIGGER FOR IMAGE PROCESS
TRIGGER FOR UPDATE PROCESS
PROCESS MODE
SCREEN CPEAR FLAG
SCREEN CHANGE FLAG
CANCEL FLAG
NEXT PAGE CONFIRMATION FLAG
REGISTRATION CONFIRMATION FLAG
SCREEN ERROR FLAG
CURSOR POSITION ERROR FLAG

```

FLAG >>

```

1 10WDSP
2 2 WUPD
3 3 WMOD
4 4 WCLR
5 5 WMDT
6 6 WCNL
7 7 WNXT
8 8 WADD
9 9 WEPRC
10 10 WEPC

```

FIELD DEFINITION

8-DIGIT DATE (YYYYMMDD)

FIELD >>

P 1 50W8DATE

P A R M L I S T

TRANSMISSION >>

```

PLIST
PARM MSGID 7 M S G I D

PLIST
PARM P@MOD 1 M O D E

```

MAIN ROUTINE

```

=====
MOVELC01BM CO1BM COPYRIGHT 1BM
EXSR SBINZ INITIAL SETUP PROCESS
DO #HIVAL

CASE00 SBEND END PROCESS
CASE01 SB1000 FIRST SCREEN PROCESS
CASE02 SB2000 SECOND SCREEN PROCESS

```

F I G. 34

This is the replacement sheet

Date: 27 SEP 1996

F I G. 35

This is the replacement sheet

Date: 27 SEP 1996

(WITH COPY SOURCE) >>

92/08/07 11:46:50 PAGE1

#####3#####4#####5#####6#####7#####8

SAHIKO YONEZAWA.

#####

```
=====
      A   R   R   A   Y
=====
      TAB1      1   4   1   TAB2      6   PROCESS SEGMENT
      INF      1   3 78                      CMD KEY GUIDE
```

-----+
CONTROL FLAG DEFINITION

```

TRIGGER FOR IMAGE PROCESS
TRIGGER FOR UPDATE PROCESS
PROCESS MODE
SCREEN CLEAR FLAG
SCREEN CHANGE FLAG
CANCEL FLAG
NEXT PAGE CONFIRMATION FLAG
REGISTRATION CONFIRMATION FLAG
SCREEN ERROR FLAG
CURSOR POSITION ERROR FLAG

```

```

1 10WDSP
2 2 WUPD
3 3 WMOD
4 4 WCLR
5 5 WMDT
6 6 WCNL
7 7 WNXT
8 8 WADD
9 9 WERR
10 10 WEPC

```

-----+
WORK FIELD DEFINITION

8-DIGIT DATA (YYYYMMDD)

```

=====
      P   1   50W8DATE
=====
      P A R M   L I S T
=====

```

TRANSMISSION >>

```

      PLIST
      PARM      MSGID      7      M S G I D

      PLIST
      PARM      PARMOD      1      M O D E

```

=====+
MAIN ROUTINE

```

=====
      MOVELCD13M      CD13M      COPYRIGHT 13M

      EXSR SBINZ      INITIAL SETUP PROCESS

      DO      +HIVAL

PROCESS >>
      CASE00      SBEND      END PROCESS
      CASE01      SB1000     FIRST SCREEN PROCESS
      CASE02      SB2000     SECOND SCREEN PROCESS

```

F I G. 36

This is the replacement sheet

Date: 27 SEP 1996

Date: **27 SEP 1996**

(NO COPY SOURCE) >>

92/08/07 11:47:13 PAGE1

```

#####3#####4#####5#####6#####7#####8
#####

```

SAHIKO YONEZAWA.

```

#####
=====
A   R   R   A   Y
=====
TAB1      1      4      1      TAB2      6      PROCESS SEGMENT
INF       1      4 78      CMD KEY GUIDE

```

```

-----
CONTROL FLAG DEFINITION
TRIGGER FOR IMAGE PROCESS
TRIGGER FOR UPDATE PROCESS
PROCESS MODE
SCREEN CLEAR FLAG
SCREEN CHANGE FLAG
CANCEL FLAG
NEXT PAGE CONFIRMATION FLAG
REGISTRATION CONFIRMATION FLAG
SCREEN ERROR FLAG
CURSOR POSITION ERROR FLAG
-----

```

```

1 10WDSP
2 2 WUPD
3 3 WMOD
4 4 WCLR
5 5 WMDT
6 6 WCNL
7 7 WNXT
8 8 WADD
9 9 WERR
10 10 WEPC

```

```

-----
WORK FIELD DEFINITION
8-DIGIT DATE (YYYYMMDD)
-----

```

```

=====
P 1 50W8DATE
=====
P A R M L I S T
=====

```

TRANSMISSION >>

```

PLIST
PARM MSGID 7 MSGID
PLIST
PARM PEMOD 1 MODE

```

```

=====
MAIN ROUTINE
=====
MOVELCOIBM COIBM COPYRIGHT IBM

```

EXSR SBINZ INITIAL SETUP PROCESS

DO #HIVAL

PROCESS >>

```

CASE00 SBEND END PROCESS
CASE01 SB1000 FIRST SCREEN PROCESS
CASE02 SB2000 SECOND SCREEN PROCESS

```

F I G. 38

This is the replacement sheet

Date: 27 SEP 1996

SKELETON: MM034	LIBRARY : K10102	DIGIT	SKELETON
ID	DELET	SUBROUTINE PROCESS NAME	<< MASTER MAINTENANCE 3
1.00			...
2.00			1
3.00			2
4.00			...
5.00			...
6.00			...
7.00			...
8.00			...
9.00			...
10.00			...
11.00			...
12.00			...
13.00			...
14.00			...
15.00			...
16.00			...
17.00			...
18.00			...
19.00			...
20.00			...
21.00			...
22.00			...
23.00			...
24.00			...
25.00			...
26.00			...
27.00			...
28.00			...
29.00			...
30.00			...
31.00			...
32.00			...
33.00			...
34.00			...
35.00			...
36.00			...
37.00			...
38.00			...
39.00			...
40.00			...
41.00			...
42.00			...
43.00			...
44.00			...
45.00			...
46.00			...
47.00			...
48.00			...
49.00			...
50.00			...
51.00			...
52.00			...
53.00			...
54.00			...
55.00			...
56.00			...
57.00			...
58.00			...
59.00			...
60.00			...
61.00			...
62.00			...
63.00			...
64.00			...
65.00			...
66.00			...
67.00			...
68.00			...
69.00			...
70.00			...

F I G. 39

This is the replacement sheet

Date: 27 SEP 1966

(WITH COPY SOURCE)>>

92/08/07 11:47:45 PAGE1

```

+-----+-----+-----+-----+-----+-----+-----+-----+
3         4         5         6         7         8
+-----+-----+-----+-----+-----+-----+-----+

```

SAHIKO YONEZAWA.

```

+-----+-----+-----+-----+-----+-----+-----+
A   R   R   A   Y
+-----+-----+-----+-----+-----+-----+-----+
TAB1  1   4   1   TAB2  6   PROCESS SEGMENT
INF   1   4 78   CMD KEY GUIDE

```

```

+-----+
CONTROL FLAG DEFINITION
TRIGGER FOR IMAGE PROCESS
TRIGGER FOR UPDATE PROCESS
PROCESS MODE
SCREEN CLEAR FLAG
SCREEN CHANGE FLAG
CANCEL FLAG
NEXT PAGE CONFIRMATION FLAG
REGISTRATION CONFIRMATION FLAG
SCREEN ERROR FLAG
CURSOR POSITION ERROR FLAG
+-----+

```

```

1 10WDSP
2 2 WUPD
3 3 WMOD
4 4 WCLR
5 5 WMDT
6 6 WCNL
7 7 WNXT
8 8 WADD
9 9 WERR
10 10 WEPC

```

```

+-----+
WORK FIELD DEFINITION
8-DIGIT DATE (YYYYMMDD)
+-----+

```

```

+-----+-----+-----+-----+-----+-----+-----+
P 1 50W8DATE
+-----+-----+-----+-----+-----+-----+-----+
P A R M L I S T
+-----+-----+-----+-----+-----+-----+-----+

```

TRANSMISSION>>

```

PLIST
PARM MSGID 7 MSGID
PLIST
PARM P@MOD 1 MODE

```

```

+-----+-----+-----+-----+-----+-----+-----+
M A I N R O U T I N E
+-----+-----+-----+-----+-----+-----+-----+
MOVELCO1BM CO1BM COPYRIGHT 1BM
EXSR SBINZ INITIAL SETUP PROCESS
DO #HIVAL
PROCESS>>
CASE00 SBEND END PROCESS
CASE01 SB1000 FIRST SCREEN PROCESS
CASE02 SB2000 SECOND SCREEN PROCESS

```

F I G. 40

This is the replacement sheet

Date: 27 SEP 1996

SKELETON: SK010	LIBRARY : K10102	DIGIT	SKELETON
ID	DELET	SUBROUTINE PROCESS NAME	<< REFERENCE
1.00			1 2
2.00			*****
3.00			*****
4.00			*****
5.00			*****
6.00			*****
7.00		ES Y0	*****
8.00		ES Y0	*****
9.00		ES Y0	*****
10.00		S Y0	*****
11.00		S Y0	*****
12.00		S Y0	*****
13.00		S Y0	*****
14.00		S Y0	*****
15.00		S Y0	*****
16.00		S Y0	*****
17.00	WNG	S Y0	*****
18.00		S Y0	*****
19.00		S Y0	*****
20.00		S Y0	*****
21.00		S Y0	*****
22.00		S Y0	*****
23.00		S Y0	*****
24.00		S Y0	*****
25.00		S Y0	*****
26.00	WNG	S Y0	*****
27.00		S Y0	*****
28.00		S Y0	*****
29.00		S Y0	*****
30.00		S Y0	*****
31.00		S Y0	*****
32.00		S Y0	*****
33.00		S Y0	*****
34.00		S Y0	*****
35.00		S Y0	*****
36.00		S Y0	*****
37.00		S Y0	*****
38.00		S Y0	*****
39.00		S Y0	*****
40.00		S Y0	*****
41.00		S Y0	*****
42.00		S Y0	*****
43.00		S Y0	*****
44.00		S Y0	*****
45.00		S Y0	*****
46.00		S Y0	*****
47.00		S Y0	*****
48.00		PL ST	*****
49.00		PL ST	*****
50.00		PL ST	*****
51.00		PL ST	*****
52.00		PL ST	*****
53.00		PL ST	*****
54.00		PL ST	*****
55.00		KL ST	*****
56.00		MA N	*****
57.00		MA N	*****
58.00		MA N	*****
59.00		MA N	*****
60.00	COIBM	MA N	*****
61.00		MA N	*****
62.00		MA N	*****
63.00		MA N	*****
64.00		MA N	*****
65.00		MA N	*****
66.00		MA N	*****
67.00		MA N	*****
68.00		MA N	*****
69.00		MA N	*****
70.00		MA N	*****

FIG. 41

This is the replacement sheet

Date: 27 SEP 1966

(CONDITION INPUT & LIST REFERENCE) >>

92/08/07 11:48:12 PAGE1

[illegible]

CONTROL FLAG DEFINITION
TRIGGER FOR IMAGE PROCESS
SCREEN CLEAR FLAG.
SCREEN ERROR FLAG
CURSOR POSITION ERROR FLAG
CONDITION MATCHING FLAG

1	10	W	D	S	P
2	2	W	C	L	R
3	3	W	E	R	R
4	4	W	E	P	C
5	5	W	N	G	

SUBFILE COUNTER DEFINITION
SUBFILE RECORD NUMBER
MAXIMUM DISPLAY RECORD COUNT PER SCREEN
MAXIMUM RECORD COUNT OF SUBFILE
CURRENTLY MAXIMUM RECORD COUNT (VARIABLE)
SUBFILE OUTPUT COUNT PER SCREEN
LOADED RECORD COUNT
DATA LOAD COUNT PER SCREEN

COUNTER >>

P	1	30WRRN
P	4	50WPAG
P	6	80WMAX
P	9	110WCRN
P	12	130WCNT
P	14	160WCMP
P	17	180WDRD

PARM LIST

TRANSMISSION >>

PLIST
PARM

MSGID

7

MSGID

```
MAIN ROUTINE
```

MOVELCDIBM

COIBM

COPYRIGHT 13M

EXSR SB INZ

INITIAL SETUP PROCESS

DO #HIVAL

PROCESS

CASE00
CASE01
CASE02
ENDCS

SBEND
SB1000
SB2000

END PROCESS
FIRST SCREEN PROCESS
SECOND SCREEN PROCESS

F I G. 42

This is the replacement sheet

Date: 27 SEP 1996

SKELETON: SK020 ID	DELET	LIBRARY : K10102 SUBROUTINE PROCESS NAME	DIGIT	SKELETON REFERENCE
1.00				1.00
2.00				2.00
3.00				3.00
4.00				4.00
5.00				5.00
6.00				6.00
7.00				7.00
8.00				8.00
9.00				9.00
10.00				10.00
11.00				11.00
12.00				12.00
13.00				13.00
14.00				14.00
15.00	WNG			15.00
16.00				16.00
17.00				17.00
18.00				18.00
19.00				19.00
20.00				20.00
21.00	WNG			21.00
22.00				22.00
23.00				23.00
24.00				24.00
25.00				25.00
26.00				26.00
27.00				27.00
28.00				28.00
29.00				29.00
30.00				30.00
31.00				31.00
32.00				32.00
33.00				33.00
34.00				34.00
35.00				35.00
36.00				36.00
37.00				37.00
38.00				38.00
39.00				39.00
40.00				40.00
41.00				41.00
42.00				42.00
43.00				43.00
44.00				44.00
45.00				45.00
46.00				46.00
47.00				47.00
48.00				48.00
49.00	COIBM			49.00
50.00				50.00
51.00				51.00
52.00				52.00
53.00				53.00
54.00				54.00
55.00				55.00
56.00				56.00
57.00				57.00
58.00				58.00
59.00				59.00
60.00				60.00
61.00				61.00
62.00				62.00
63.00				63.00
64.00				64.00
65.00				65.00
66.00				66.00
67.00				67.00
68.00				68.00
69.00				69.00
70.00				70.00

FIG. 43

This is the replacement sheet

Date: 27 SEP 1996

(DETAILED REFERENCE WITH SFL) >>

92/08/07 11:48:29 PAGE1

```

#####3#####4#####5#####6#####7#####8
#####
SAHIKO YONEZAWA.
#####
=====
      A  R  R  A  Y
=====
      INF      1      1 78
=====
                                CMD KEY GUIDE

```

```

-----+
CONTROL FLAG DEFINITION
TRIGGER FOR IMAGE PROCESS
SCREEN ERROR FLAG
CONDITION MATCHING FLAG
-----+

```

```

1 10WDSP
2 2 WERR
3 3 WNG

```

```

-----+
SUBFILE COUNTER DEFINITION
SUBFILE RECORD NUMBER
MAXIMUM DISPLAY RECORD COUNT PER SCREEN
MAXIMUM RECORD COUNT OF SUBFILE
-----+

```

COUNTER >>

```

P 1 30WRRN
P 4 50WPAG
P 6 80WMAX

```

```

=====+
      P A R M   L I S T
=====+

```

TRANSMISSION >>

```

PLIST
PARM          MSGID 7          MSGID

```

```

=====+
      M A I N   R O U T I N E
=====+
      MOVELCOIBM      COIBM      COPYRIGHT IBM
      EXSR SBINZ      INITIAL SETUP PROCESS
      DO  #HIVAL
      CASE00          SBEND      END PROCESS
      CASE01          SB1000     FIRST SCREEN PROCESS
      ENDCS
      ENDDO

```

```

=====+
      S U B   R O U T I N E
=====+
      INITIAL SETUP
=====+

```

PERFORM INITIAL SETUP BEFORE ANY OTHER PROCESS

BEGSR

F I G. 44

This is the replacement sheet

Date: 27 SEP 1996

SKELETON: SK021 ID	DELET	LIBRARY : K10102 SUBROUTINE PROCESS NAME	DIGIT	SKELETON REFERENCE
1.00				...+.....1.....+.....2... #####
2.00				++ ++ COPYRIGHT MA
3.00				++ ++ #####
4.00				++ ++ #####
5.00				++ ++ #####
6.00				++ ++ #####
7.00		ESS	YO	mmmm
8.00		ESS	YO	mmmm
9.00		ESS	YO	mmmm
10.00		SS	YO	++
11.00		SS	YO	++
12.00		SS	YO	++
13.00		SS	YO	++
14.00		SS	YO	++
15.00	WNG	SS	YO	++
16.00		SS	YO	++
17.00		SS	YO	++
18.00		SS	YO	++
19.00		SS	YO	++
20.00		SS	YO	++
21.00		SS	YO	++
22.00	WNG	SS	YO	++
23.00		SS	YO	++
24.00		SS	YO	++
25.00		SS	YO	++
26.00		SS	YO	++
27.00		SS	YO	++
28.00		SS	YO	++
29.00		SS	YO	++
30.00		SS	YO	++
31.00		SS	YO	++
32.00		SS	YO	++
33.00		SS	YO	++
34.00		SS	YO	++
35.00		SS	YO	++
36.00		SS	YO	++
37.00		PL	ST	C+=====
38.00		PL	ST	C+=====
39.00		PL	ST	C+=====
40.00		PL	ST	C+=====
41.00		PL	ST	C+=====
42.00		PL	ST	C+=====
43.00		PL	ST	C+=====
44.00		KL	ST	C+=====
45.00		MA	N	C+=====
46.00		MA	N	C+=====
47.00		MA	N	C+=====
48.00		MA	N	C+=====
49.00	COIBM	MA	N	C+=====
50.00		MA	N	C+=====
51.00		MA	N	C+=====
52.00		MA	N	C+=====
53.00		MA	N	C+=====
54.00		MA	N	C+=====
55.00		MA	N	C+=====
56.00		MA	N	C+=====
57.00		MA	N	C+=====
58.00		MA	N	C+=====
59.00		MA	N	C+=====
60.00		MA	N	C+=====
61.00		MA	N	C+=====
62.00		MA	N	C+=====
63.00		MA	N	C+=====
64.00		SB	NZ	C+=====
65.00		SB	NZ	C+=====
66.00		SB	NZ	C+=====
67.00		SB	NZ	C+=====
68.00		SB	NZ	C+=====
69.00		SB	NZ	C+=====
70.00		SB	NZ	C+=====

FIG. 45

This is the replacement sheet

Date: 27 SEP 1996

(DETAILED REFERENCE I WITH SFL) >>

92/08/07 11:48:40 PAGE1

3 4 5 6 7 8

SAHIKO YONEZAWA.

A R R A Y
 INF 1 1 78 CHD KEY GUIDE

CONTROL FLAG DEFINITION
TRIGGER FOR IMAGE PROCESS
SCREEN ERROR FLAG
CONDITION MATCHING FLAG

1	1	OWDSP
2	2	WERRR
3	3	WNG

```
-----
SUBFILE COUNTER DEFINITION
SUBFILE RECORD NUMBER
MAXIMUM DISPLAY RECORD COUNT PER SCREEN
MAXIMUM RECORD COUNT OF SUBFILE
```

COUNTER >>

P	1	30WRRN
P	4	50WPAG
P	6	80WMAX

```
=====
      PARM LIST
=====
```

TRANSMISSION >>

PLIST
PARM MSGID 7 MSGID

```
=====+
MAIN ROUTINE=====+
=====+
      MOVELCO1BM      CO1BM      COPYRIGHT 1BM
      EXSR SBINZ              INITIAL SETUP PROCESS
      DO      *HIVAL

      CASEQ0      SBEND      END PROCESS
      CASEQ1      SB1000     FIRST SCREEN PROCESS
      ENDCS

      ENDDO
```

```

SUB ROUTINE
INITIAL SETUP

```

PERFORM INITIAL SETUP BEFORE ANY OTHER PROCESS

BEGSR

FIG. 46

This is the replacement sheet

Date: 27 SEP 1996

47/62

SKELETON : SK021	LIBRARY : K10102	DIGIT	SKELETON
ID	DELET	SUBROUTINE PROCESS NAME	<< REFERENCE
1.00			...+.....1.....2.....
2.00			#####
3.00			#####
4.00			#####
5.00			#####
6.00			#####
7.00			#####
8.00			#####
9.00			#####
10.00			#####
11.00			#####
12.00			#####
13.00			#####
14.00			#####
15.00			#####
16.00			#####
17.00			#####
18.00			#####
19.00			#####
20.00			#####
21.00			#####
22.00			#####
23.00			#####
24.00			#####
25.00			#####
26.00			#####
27.00			#####
28.00			#####
29.00			#####
30.00			#####
31.00			#####
32.00			#####
33.00			#####
34.00			#####
35.00			#####
36.00			#####
37.00			#####
38.00			#####
39.00			#####
40.00			#####
41.00			#####
42.00			#####
43.00			#####
44.00			#####
45.00			#####
46.00			#####
47.00			#####
48.00			#####
49.00			#####
50.00			#####
51.00			#####
52.00			#####
53.00			#####
54.00			#####
55.00			#####
56.00			#####
57.00			#####
58.00			#####
59.00			#####
60.00			#####
61.00			#####
62.00			#####
63.00			#####
64.00			#####
65.00			#####
66.00			#####
67.00			#####
68.00			#####
69.00			#####
70.00			#####

F I G. 47

is the replacement sheet

Date: 27 SEP 1996

(DETAILED REFERENCE (WITHOUT SFL) >>

92/08/07 11:48:52 PAGE1

```

3      4      5      6      7      8
+-----+-----+-----+-----+-----+

```

SAHIKO YONEZAWA.

```

=====+
A R R A Y
=====+
INF      1      1 78      CMD KEY GUIDE

```

```

-----+
CONTROL FLAG DEFINITION
TRIGGER FOR IMAGE PROCESS
CONDITION MATCHING FLAG
-----+

```

```

1      10WDSP
2      2 WNG

```

```

=====+
MAIN ROUTINE
=====+
MOVELCOIBM      COIBM      COPYRIGHT IBM
EXSR S8INZ      INITIAL SETUP PROCESS
DO #HIVAL
PROCESS >
CASE00          SBEND      END PROCESS
CASE01          SB1000     FIRST SCREEN PROCESS
ENDCS
ENDDO

```

```

=====+
SUB ROUTINE
=====+
INITIAL SETUP
=====+
PERFORM INITIAL SETUP BEFORE ANY OTHER PROCESS
=====+

```

```

AND TIME >>
SET >> TIME      HMSYMD
MOVELINF.1      D1INF
NUMBER SET >> MOVELWPID      D1PGID      PROGRAM ID SET
MOVEL ' :1 '    D1GMND

```

```

=====+
ENDSR
FIRST SCREEN PROCESS ( FIRST SCREEN MAIN )
=====+
MAIN ROUTINE OF FIRST SCREEN
=====+
BEGSR
INITIAL EDIT >>

```

F I G. 48

This is the replacement sheet

Date: 27 SEP 1996

49/62

SKELETON: SK041 ID	DELET	LIBRARY : K10102 SUBROUTINE	PROCESS NAME	DIGIT	SKELETON « REFERENCE
1.00					1 2
2.00					=====
3.00					COPYRIGHT MA
4.00					=====
5.00					=====
6.00					=====
7.00					=====
8.00					=====
9.00					=====
10.00					=====
11.00					=====
12.00					=====
13.00					=====
14.00					=====
15.00					=====
16.00					=====
17.00					=====
18.00					=====
19.00					=====
20.00					=====
21.00					=====
22.00					=====
23.00					=====
24.00					=====
25.00					=====
26.00					=====
27.00					=====
28.00					=====
29.00					=====
30.00					=====
31.00					=====
32.00					=====
33.00					=====
34.00					=====
35.00					=====
36.00					=====
37.00					=====
38.00					=====
39.00					=====
40.00					=====
41.00					=====
42.00					=====
43.00					=====
44.00					=====
45.00					=====
46.00					=====
47.00					=====
48.00					=====
49.00					=====
50.00					=====
51.00					=====
52.00					=====
53.00					=====
54.00					=====
55.00					=====
56.00					=====
57.00					=====
58.00					=====
59.00					=====
60.00					=====
61.00					=====
62.00					=====
63.00					=====
64.00					=====
65.00					=====
66.00					=====
67.00					=====
68.00					=====
69.00					=====
70.00					=====

F I G. 49

This is the replacement sheet

Date: 27 SEP 1996

(DETAILED REFERENCE 2 WITHOUT SFL) >>

92/08/07 11:49:03 PAGE1

```

#####3#####4#####5#####6#####7#####8
#####

```

SAHIKO YONEZAWA.

```

#####
=====

```

A R R A Y

INF 1 2 78

CMD KEY GUIDE

```

-----
CONTROL FLAG DEFINITION
TRIGGER FOR IMAGE PROCESS
CONDITION MATCHING FLAG
-----

```

```

1 10WDSP
2 2 WNG

```

```

=====
MAIN ROUTINE
=====

```

MOVELCOIBM COIBM

COPYRIGHT IBM

EXSR SBINZ

INITIAL SETUP PROCESS

DO #HIVAL

PROCESS >>

CASE00

SBEND

END PROCESS

CASE01

SB1000

FIRST SCREEN PROCESS

CASE02

SB2000

SECOND SCREEN PROCESS

ENDCS

ENDDO

```

=====
SUB ROUTINE
=====

```

```

=====
INITIAL SETUP
=====

```

```

-----
PERFORM INITIAL SETUP BEFORE ANY OTHER PROCESS
-----

```

BEGSR

MOVELWPID

D1PGID

PROGRAM ID SET

ENDSR

```

=====
FIRST SCREEN PROCESS ( FIRST SCREEN MAIN)
=====

```

```

-----
MAIN ROUTINE OF FIRST SCREEN
-----

```

BEGSR

INITIAL EDIT >>

EXSR SB1100

LOOP PROCESS >>

DOWEQ1

EXSR SB1200

ENDDO

F I G. 50

This is the replacement sheet

Date: 27 SEP 1996

SKELETON: SK050 ID	DELET	LIBRARY SUBROUTINE	K10102 PROCESS NAME	DIGIT	SKELETON < REFERENCE (DETAILED)
1.00					1.00
2.00					2.00
3.00					3.00
4.00					4.00
5.00					5.00
6.00		FS	YO		6.00
7.00		FS	YO		7.00
8.00		FS	YO		8.00
9.00		FS	YO		9.00
10.00		FS	YO		10.00
11.00		FS	YO		11.00
12.00		FS	YO		12.00
13.00		FS	YO		13.00
14.00		FS	YO		14.00
15.00		FS	YO		15.00
16.00		FS	YO		16.00
17.00	WNG	FS	YO		17.00
18.00		FS	YO		18.00
19.00		FS	YO		19.00
20.00		FS	YO		20.00
21.00		FS	YO		21.00
22.00		FS	YO		22.00
23.00		FS	YO		23.00
24.00		FS	YO		24.00
25.00		FS	YO		25.00
26.00	WNG	FS	YO		26.00
27.00		FS	YO		27.00
28.00		FS	YO		28.00
29.00		FS	YO		29.00
30.00		FS	YO		30.00
31.00		FS	YO		31.00
32.00		FS	YO		32.00
33.00		FS	YO		33.00
34.00		FS	YO		34.00
35.00		FS	YO		35.00
36.00		FS	YO		36.00
37.00		FS	YO		37.00
38.00		FS	YO		38.00
39.00		FS	YO		39.00
40.00		PL	ST		40.00
41.00		PL	ST		41.00
42.00		PL	ST		42.00
43.00		PL	ST		43.00
44.00		PL	ST		44.00
45.00		PL	ST		45.00
46.00		PL	ST		46.00
47.00		KL	ST		47.00
48.00		MA	IN		48.00
49.00		MA	IN		49.00
50.00		MA	IN		50.00
51.00		MA	IN		51.00
52.00	COIBM	MA	IN		52.00
53.00		MA	IN		53.00
54.00		MA	IN		54.00
55.00		MA	IN		55.00
56.00		MA	IN		56.00
57.00		MA	IN		57.00
58.00		MA	IN		58.00
59.00		MA	IN		59.00
60.00		MA	IN		60.00
61.00		MA	IN		61.00
62.00		MA	IN		62.00
63.00		MA	IN		63.00
64.00		MA	IN		64.00
65.00		MA	IN		65.00
66.00		MA	IN		66.00
67.00		MA	IN		67.00
68.00		SB	INZ		68.00
69.00		SB	INZ		69.00
70.00		SB	INZ		70.00

FIG. 51

This is the replacement sheet

Date: 27 SEP 1996

REFERENCE 3 WITH SFL)»

92/08/07 11:49:16 PAGE1

3 4 5 6 7 8

SAHIKO YONEZAWA.

A R R A Y
 INF 1 2 78 CMD KEY GUIDE

DEFINITION
 TRIGGER FOR IMAGE PROCESS
 SCREEN CLEAR FLAG
 SCREEN ERROR FLAG
 CURSOR POSITION ERROR FLAG
 CONDITION MATCHING FLAG

FLAG>>

1	10	WDSP
2	2	WCLRR
3	3	WERRR
4	4	WEPC
5	5	WNG

COUNTER DEFINITION
SUBFILE RECORD NUMBER
MAXIMUM DISPLAY RECORD COUNT PER SCREEN
MAXIMUM RECORD COUNT OF SUBFILE

COUNTER>>

P	1	30WRRN
P	4	50WPAG
P	6	80WMAX

```
=====
      P A R M   L I S T
=====
```

TRANSMISSION>>

MISSION
PLIST
PARM MSGID 7 MSGID

```
=====
MAIN ROUTINE
```

```
=====
MODEL CO1BM      CO1BM      COPYRIGHT IBM
SETUP>>          EXSR SBINZ      INITIAL SETUP PROCESS
```

DO #HIVAL

```

DU          +RIVAL
PROCESS>>
CASE00      SBEND          END PROCESS
CASE01      SB1000        FIRST SCREEN PROCESS
CASE02      SB2000        SECOND SCREEN PROCESS
ENDCS

```

ENDDO

```
=====
SUBROUTINE
```

=====

INITIAL SETUP

F I G. 52

This is the replacement sheet

Date: 27 SEP 1996

[illegible]

REFERENCE 3 WITH SFL)>>

92/08/07 11:49:33 PAGE 1

#####3#####4#####5#####6#####7#####8

SAHIKO YONEZAWA.

```
#####
=====
      A  R  R  A  Y
=====
      INF      1      2 78      CMD KEY GUIDE
```

```
-----+-----
DEFINITION
TRIGGER FOR IMAGE PROCESS
SCREEN CLEAR FLAG
SCREEN ERROR FLAG
CURSOR POSITION ERROR FLAG
CONDITION MATCHING FLAG
-----+-----
```

```
1 10WDSP
2 2 WCLR
3 3 WERR
4 4 WEPC
5 5 WNG
```

```
-----+-----
COUNTER DEFINITION
SUBFILE RECORD NUMBER
MAXIMUM DISPLAY RECORD COUNT PER SCREEN
MAXIMUM RECORD COUNT OF SUBFILE
-----+-----
```

COUNTER>>

```
P 1 30WRRN
P 4 50WPAG
P 6 80WMAX
```

```
=====+=====
P A R M L I S T
=====+=====
```

TRANSMISSION>>

```
PLIST
PARAM MSGID 7 MSGID
```

```
=====+=====
M A I N R O U T I N E
=====+=====
```

```
MOVELCOIBM COIBM COPYRIGHT IBM
EXSR SBINZ INITIAL SETUP PROCESS
```

DO #HIVAL
PROCESS>>

```
CASE00 SBEND END PROCESS
CASE01 SB1000 FIRST SCREEN PROCESS
CASE02 SB2000 SECOND SCREEN PROCESS
ENDCS
```

ENDDO

```
=====+=====
S U B R O U T I N E
=====+=====
```

INITIAL SETUP

F I G. 54

This is the replacement sheet

Date: 27 SEP 1996

SKELETON		LIBRARY : K10102		SKELETON	
ID : SK060		SUBROUTINE PROCESS NAME		<<REFERENCE (DETAILED-2>>	
DELET		DIGIT		.....	
1.00				.....	.....
2.00				.....	.....
3.00				.....	.....
4.00				.....	.....
5.00				.....	.....
6.00		ES	YO	.....	.....
7.00		ES	YO	.....	.....
8.00		ES	YO	.....	.....
9.00		ES	YO	.....	.....
10.00		S	YO	.....	.....
11.00		S	YO	.....	.....
12.00		S	YO	.....	.....
13.00		S	YO	.....	.....
14.00		S	YO	.....	.....
15.00		S	YO	.....	.....
16.00		S	YO	.....	.....
17.00		S	YO	.....	.....
18.00		S	YO	.....	.....
19.00		S	YO	.....	.....
20.00		S	YO	.....	.....
21.00		S	YO	.....	.....
22.00		S	YO	.....	.....
23.00		S	YO	.....	.....
24.00		S	YO	.....	.....
25.00		PL	ST	.....	.....
26.00		PL	ST	.....	.....
27.00		PL	ST	.....	.....
28.00		PL	ST	.....	.....
29.00		PL	ST	.....	.....
30.00		PL	ST	.....	.....
31.00		PL	ST	.....	.....
32.00		KL	ST	.....	.....
33.00		MA	N	.....	.....
34.00		MA	N	.....	.....
35.00		MA	N	.....	.....
36.00		MA	N	.....	.....
37.00	COIBM	MA	N	.....	.....
38.00		MA	N	.....	.....
39.00		MA	N	.....	.....
40.00		MA	N	.....	.....
41.00		MA	N	.....	.....
42.00		MA	N	.....	.....
43.00		MA	N	.....	.....
44.00		MA	N	.....	.....
45.00		MA	N	.....	.....
46.00		MA	N	.....	.....
47.00		MA	N	.....	.....
48.00		MA	N	.....	.....
49.00		MA	N	.....	.....
50.00		MA	N	.....	.....
51.00		MA	N	.....	.....
52.00		MA	N	.....	.....
53.00		SB	NZ	.....	.....
54.00		SB	NZ	.....	.....
55.00		SB	NZ	.....	.....
56.00		SB	NZ	.....	.....
57.00		SB	NZ	.....	.....
58.00		SB	NZ	.....	.....
59.00		SB	NZ	.....	.....
60.00		SB	NZ	.....	.....
61.00		SB	NZ	.....	.....
62.00		SB	NZ	.....	.....
63.00		SB	NZ	.....	.....
64.00		SB	NZ	.....	.....
65.00		SB	NZ	.....	.....
66.00		SB	NZ	.....	.....
67.00		SB	NZ	.....	.....
68.00		SB	1000	.....	.....
69.00		SB	1000	.....	.....
70.00		SB	1000	.....	.....

FIG. 55

This is the replacement sheet

Date: 27 SEP 1996

REFERENCE 4 WITHOUT SFL) >> 92/08/07 11:49:50 PAGE 1

SAHIKO YONEZAWA.

```
=====
A R R A Y
=====
INF      1      2 78      CMD KEY GUIDE
```

```
-----+
DEFINITION
TRIGGER FOR IMAGE PROCESS
CANCEL FLAG
SCREEN ERROR FLAG
CURSOR POSITION ERROR FLAG
-----+
```

```
=====
1      10WDSP
2      2 WCLR
3      3 WERR
4      4 WEPC
=====
F A R M   L I S T
=====
```

```
TRANSMISSION >>
PLIST
PARM      MSGID      7      M S G I D
```

```
=====
M A I N   R O U T I N E
=====
MOVELCOIBM      COIBM      COPYRIGHT IBM
SETUP >> EXSR SBINZ      INITIAL SETUP PROCESS
DO      #HIVAL
PROCESS >>
CASE00      SBEND      END PROCESS
CASE01      SB1000     FIRST SCREEN PROCESS
CASE02      SB2000     SCOND SCREEN PROCESS
ENDCS
ENDDDO
```

```
=====
S U B   R O U T I N E
=====
INITIAL SETUP
=====
INITIAL PROCESS BEFORE ANY OTHER PROCESS
=====
BEGSR
```

```
SUBFILE INITIALIZATION >>
SETON      22      MESSAGE REMOVAL
CALL ' RMVMSGC '
```

```
=====
ENDSR
=====
FIRST SCREEN PROCESS (FIRST SCREEN MAIN)
=====
```

FIG. 56

This is the replacement sheet

Date: 27 SEP 1996

SKELETON		LIBRARY : K10102		SKELETON	
ID : WN010		SUBROUTINE PROCESS NAME		<<WINDOW (MASTER-	
DELET		DIGIT		.....	
1.00					1
2.00					2
3.00					
4.00					
5.00					
6.00					
7.00					
8.00					
9.00					
10.00					
11.00					
12.00					
13.00					
14.00					
15.00					
16.00					
17.00					
18.00					
19.00					
20.00					
21.00	WNG				
22.00					
23.00					
24.00					
25.00					
26.00					
27.00					
28.00					
29.00					
30.00					
31.00					
32.00					
33.00	WNG				
34.00					
35.00					
36.00					
37.00					
38.00					
39.00					
40.00					
41.00					
42.00					
43.00					
44.00					
45.00					
46.00					
47.00					
48.00					
49.00					
50.00					
51.00					
52.00					
53.00					
54.00					
55.00					
56.00					
57.00					
58.00					
59.00					
60.00					
61.00					
62.00					
63.00	CO1BM				
64.00					
65.00					
66.00					
67.00					
68.00					
69.00					
70.00					

RETRIEVAL 1) > > 92/08/07 11:50:03 PAGE 1

#####3#####4#####5#####6#####7.....8

SAHIKO YONEZAWA.

=====A R R A Y=====+
INF 1 2 78 CMD KEY GUIDE

DEFINITION

TRIGGER FOR IMAGE PROCESS

SCREEN ERROR FLAG

POINTER FLAG (0: TOP LINE, 1: BOTTOM LINE)

TOP PAGE FLAG (0: OTHER THAN TOP PAGE, 1: TOP PAGE)

EDIT SEGMENT (0: NORMAL EDIT, 1: ROLL EDIT) (FOR MESSAGE CONTROL)

EOF FLAG (FOR READP)

EXECUTION KEY DEPRESSION FLAG (0: STATE IMMEDIATELY AFTER DEPRESSION,

1: OTHERS

CONDITION MATCHING FLAG

1	10WDSP
2	2WERR
3	3WTR
4	4WTPG
5	5WSTD
6	6WBOF
7	7WFST
8	8WNG

COUNTER DEFINITION

SUBFILE RECORD NUMBER

MAXIMUM DISPLAY RECORD COUNT PER SCREEN

DETAILED START LINE

FIELD OF CURRENTLY DISPLAYED BOTTOM LINE NUMBER

REVERSE / IDLE READ COUNTER

COUNTER>>

P	1	30WRRN
P	4	50WDSP
P	6	70WSTR
P	8	100WBOT
P	11	120WSBT

PARM LIST

TRANSMISSION>>

PLIST

PARM

MSGID

7

MSGID

MAIN ROUTINE

MOVELCOIBM

COIBM

COPYRIGHT IBM

SETUP>>

EXSR SBINZ

INITIAL SETUP PROCESS

DO #HIVAL

PROCESS>>

CASE00

SBEND

END PROCESS

CASE01

SB1000

FIRST SCREEN PROCESS

F I G. 58

This is the replacement sheet

Date: 27 SEP 1996

59/62

SKELETON		LIBRARY : K10102		SKELETON	
ID :	DELET	SUBROUTINE	PROCESS NAME	DIGIT	<WINDOW (MASTER -
1.00					1 2
2.00					*****
3.00					COPYRIGHT MA
4.00					*****
5.00					*****
6.00		ES	YO		*****
7.00		ES	YO		*****
8.00		ES	YO		*****
9.00		ES	YO		*****
10.00		S	YO		*****
11.00		S	YO		*****
12.00		S	YO		*****
13.00		S	YO		*****
14.00		S	YO		*****
15.00		S	YO		*****
16.00		S	YO		*****
17.00		S	YO		*****
18.00		S	YO		*****
19.00		S	YO		*****
20.00		S	YO		*****
21.00	WNG	S	YO		*****
22.00		S	YO		*****
23.00		S	YO		*****
24.00		S	YO		*****
25.00		S	YO		*****
26.00		S	YO		*****
27.00		S	YO		*****
28.00		S	YO		*****
29.00		S	YO		*****
30.00		S	YO		*****
31.00		S	YO		*****
32.00		S	YO		*****
33.00	WNG	S	YO		*****
34.00		S	YO		*****
35.00		S	YO		*****
36.00		S	YO		*****
37.00		S	YO		*****
38.00		S	YO		*****
39.00		S	YO		*****
40.00		S	YO		*****
41.00		S	YO		*****
42.00		S	YO		*****
43.00		S	YO		*****
44.00		S	YO		*****
45.00		S	YO		*****
46.00		S	YO		*****
47.00		S	YO	21	*****
48.00		S	YO	21	*****
49.00		S	YO		*****
50.00		S	YO		*****
51.00		PL	ST		*****
52.00		PL	ST		*****
53.00		PL	ST		*****
54.00		PL	ST		*****
55.00		PL	ST		*****
56.00		PL	ST		*****
57.00		PL	ST		*****
58.00		KL	ST		*****
59.00		MA	N		*****
60.00		MA	N		*****
61.00		MA	N		*****
62.00		MA	N		*****
63.00	COIBM	MA	N		*****
64.00		MA	N		*****
65.00		MA	N		*****
66.00		MA	N		*****
67.00		MA	N		*****
68.00		MA	N		*****
69.00		MA	N		*****
70.00		MA	N		*****

SKELETON	
ID :	DELET
1.00	
2.00	
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SKELETON	
ID :	DELET
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36.00	
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38.00	
39.00	
40.00	
41.00	
42.00	
43.00	
44.00	
45.00	
46.00	
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67.00	
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69.00	
70.00	

F I G. 59

This is the replacement sheet

Date: 27 SEP 1996

RETRIEVAL 1) >> 92/08/07 11:50:22 PAGE 1

#####

SAHIKO YONEZAWA.

#####

=====

INF 1 2 78

CMD KEY GUIDE

DEFINITION

TRIGGER FOR IMAGE PROCESS

SCREEN ERROR FLAG

POINTER FLAG (0: TOP LINE, 1: BOTTOM LINE)

TOP PAGE FLAG (0: OTHER THAN TOP PAGE, 1: TOP PAGE)

EDIT SEGMENT (0: NORMAL EDIT, 1: ROLL EDIT) (FOR MESSAGE CONTROL)

EOF FLAG (FOR READP)

EXECUTION KEY DEPRESSION FLAG (0: STATE IMMEDIATELY AFTER DEPRESSION, 1: OTHERS)

CONDITION MATCHING FLAG

1	10WDSP
2	2 WERR
3	3 WPTR
4	4 WTPG
5	5 WSTD
6	6 WBOF
7	7 WFST
8	8 WNG

COUNTER DEFINITION

SUBFILE RECORD NUMBER

MAXIMUM DISPLAY RECORD COUNT PER SCREEN

DETAILED START LINE

FIELD OF CURRENTLY DISPLAYED BOTTOM LINE NUMBER

REVERSE / IDLE READ COUNTER

COUNTER>>

P	1	30WRRN
P	4	50WPAG
P	6	70WSTR
P	8	100WBOT
P	11	120WSBT

=====

PARM LIST

TRANSMISSION>>

PLIST

PARM

MSGID

7

MSGID

MAIN ROUTINE

MOVE LCO1BM

CO1BM

COPYRIGHT IBM

SETUP>> EXSR SBINZ

INITIAL SETUP PROCESS

DO #HIVAL

PROCESS>>

CASE00

SBEND

END PROCESS

CASE01

SB1000

FIRST SCREEN PROCESS

F I G. 60

This is the replacement sheet

Date:

27 SEP 1996

SKELETON : WNO20	DELET	LIBRARY : K10102	SUBROUTINE PROCESSNAME	DIGIT	SKELETON	WINDOW (TRAN -
1.00					...	1 2
2.00					+	+
3.00					+	+
4.00					+	+
5.00					+	+
6.00					+	+
7.00					+	+
8.00					+	+
9.00					+	+
10.00					+	+
11.00					+	+
12.00					+	+
13.00					+	+
14.00					+	+
15.00					+	+
16.00					+	+
17.00					+	+
18.00					+	+
19.00	WNG				+	+
20.00					+	+
21.00					+	+
22.00					+	+
23.00					+	+
24.00					+	+
25.00					+	+
26.00					+	+
27.00					+	+
28.00					+	+
29.00					+	+
30.00	WNG				+	+
31.00					+	+
32.00					+	+
33.00					+	+
34.00					+	+
35.00					+	+
36.00					+	+
37.00					+	+
38.00					+	+
39.00					+	+
40.00					+	+
41.00					+	+
42.00					+	+
43.00					+	+
44.00					+	+
45.00					+	+
46.00					+	+
47.00					+	+
48.00					+	+
49.00					+	+
50.00					+	+
51.00					+	+
52.00					+	+
53.00					+	+
54.00					+	+
55.00					+	+
56.00					+	+
57.00					+	+
58.00					+	+
59.00					+	+
60.00					+	+
61.00					+	+
62.00					+	+
63.00					+	+
64.00					+	+
65.00					+	+
66.00					+	+
67.00					+	+
68.00	COIBM				+	+
69.00					+	+
70.00					+	+

FIG. 64

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RETRIEVAL 1 >> 92/08/07 11:50:43 PAGE 1

#####3#####4#####5#####6#####7...+...8

SAHIKO YONEZAWA.

=====+
A R R A Y
-----+
INF 1 2 78 CMD KEY GUIDE

FLAG DEFINITION

TRIGGER FOR IMAGE PROCESS
SCREEN ERROR FLAG
POINTER FLAG (0: TOP LINE, 1: BOTTOM LINE)
PROCESSED STATE FLAG (0: PROCESSED, 1: NON- PROCESSED)
CURSOR POSITION ERROR FLAG
INPUT PRESENCE / ABSENCE FLAG (0: ABSENT, 1: PRESENT)
CONDITION MATCHING FLAG

1	10WDSP
2	2 WERR
3	3 WPTR
4	4 WSUM1
5	5 WEPC
6	6 WNDA
7	7 WNG

COUNTER DEFINITION

SUBFILE RECORD NUMBER
MAXIMUM DISPLAY RECORD COUNT PER SCREEN
DETAILED START LINE
DETAILED END LINE
MAXIMUM RECORD COUNT OF SUBFILE
CURRENTLY MAXIMUM RECORD COUNT (VARIABLE)
SUBFILE OUTPUT COUNT PER SCREEN
LOADED RECORD COUNT
DATA LOAD COUNT PER SCREEN

COUNTER >>

P	1	30WRRN
P	4	50WPAG
P	6	70WSTR
P	8	90WEND
P	10	120WMAX
P	13	150WCRN
P	16	170WCNT
P	18	200WCMP
P	21	220WDRD

PARM LIST

TRANSMISSION >>

PLIST
PARM MSGID 7 MSGID

MAIN ROUTINE

=====+
=====+
SETUP>> MOVELCOIBM COIBM COPYRIGHT IBM
EXSR SBINZ INITIAL SETUP PROCESS

F I G. 62

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