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Title:

RC8000 Utility Program
MAINSTAT

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RC8000 Basic Software, utility program, IDA, FPA, SCC, statistics, test records.

Abstract: This manual describes a program to print statistical information and test records generated by an RC8000/IDA, RC8000/FPA or RC4000/SCC main process with associated receiver and transmitter processes.

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1. INTRODUCTION

The program is a diagnostic tool for printing statistical information and testoutput from an RC8000/IDA, RC8000/FPA or RCX000/SCC main process.

The program may print directly from the core as well as from a file containing a core picture. When printing directly from core the generation of testoutput is disabled for a moment.

2. CALL

```
(<outfile> =)  $\begin{smallmatrix} 1 \\ 0 \end{smallmatrix}$ 
```

```
mainstat <proc spec><function>
```

```
<proc spec>::= core8000.<name(ida-mainproc)>/
                core8000.<name(fpa-mainproc)>/
                core4000.<name(scc-mainproc)>/
                dump8000.<dump file>.<proc desc
                        addr(ida-mainproc)>/
                dump8000.<dump file>.<proc desc
                        addr(fpa-mainproc)>/
                dump4000.<dump file>.<proc desc
                        addr(scc-mainproc)>/
```

```
<function>::=  <empty>/
                test.yes/
                test.no
```

The <proc spec> field is used to define the type of the computer (RC8000/RC4000) and where the statistical information shall be printed from (core or a core dump).

The <function> field is used to specify whether the test records shall be printed, - the default value is 'test.no'.

3. FUNCTION

For RC8000/FPA main process, the program finds the receiver and transmitter processes associated with the main process specified.

The program extracts and prints on current output the statistics, first from the receiver process, then from the transmitter process description.

For RC8000/IDA main process, the program acquires and prints the statistics from the main process.

Display at RC4000/SCC main process statistics are not implemented.

If a dump file is specified, it is supposed to contain a core picture with core address 0 equivalent to area address 0.

If the function field specifies output of the testrecords, the generation of testoutput to the testbuffer is disabled while the test mask and the testbuffer are inspected and enabled again with the same testmask (in case of testrecords from the core), even in case of abnormal program termination.

The testrecords of the buffer are printed in FIFO order as indicated by the buffer pointers.

4. EXAMPLES

4.1 Example 1

The following command extracts the statistics and the testrecords from the RC8000/IDA main process named 'idamain1' and prints it in the file 'outfile':

```
outfile = mainstat core8000.idamain1 test.yes
```

4.2 Example 2

The following command extracts the statistics from the RC8000/FPA main process named 'main36001':

```
mainstat core8000.main36001
```

4.3 Example 3

The following command extracts the statistics and the testbuffer from the RC8000/FPA main process with the address 20786 in the coredump contained in the file 'coredump':

```
mainstat dump8000.coredump.20786 test.yes
```

5. ERROR MESSAGES

***mainstat, error in call
the call is not syntactically correct

***mainstat, no testbuffer
the main process specified has no testbuffer

***mainstat, mainprocess unknown
the IDA, FPA or SCC main process specified does not
exist

***mainstat, main process not found

- the kind of the main process specified and found is
not correct (neither 80 nor 20)
- the coredump area could not be found or the address
points outside the coredump area.
- the address of the mainproc specified was not found
in the name table in the coredump.

RETURN LETTER

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