NAME

intsort - sort routine for integer data files

SYNOPSIS

intsort [·**m**] [·**n**] [·**r**] [·**s**_d_] [+**pos**]... [·**o**_name_] [name]...

DESCRIPTION

Intsort sorts integer records in the named files and writes the result to the specified output file.

By default, the sort is in ascending numerical order over an entire record. If, however, the records are to be sorted only on certain selected integer elements in the record, then the sort keys are specified via the key specifications, +**pos**, as described below.

The valid arguments are:

·**m**   Merge only, the input files are already sorted.

·**n**   Sort on all integer elements except those specified via the +**pos** key specifications.

·**r**   Sort records in descending numerical order rather than ascending numerical order.

·**s**_d_   The record length size, in bytes, is set equal to the value of "**d**", which should be a decimal number that is greater than zero and less than 513. The default record length is 100 bytes.

·**o**   The next argument is the name of the output file. This file may have the same name as one of the input files, except under the merge flag, ·**m.**

+**pos** Selected words or subwords of the integer data record may be used as sort keys. Pos has the form

        \<field> [,\<left bit>,\<right bit>]

where field   is the integer element in the record that is to be used as the key. It may be equal to or greater than zero, but may not be equal to or greater than the maximum number of words in the record.

left bit   is the left most bit (most significant), in the integer element, that is to be used as the key. If not specified, it is assumed to be 15. The permissible range of values for this item is 0 thru 15.

right bit   is the right most bit, in the integer ele-

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ment, that is to be used as the key. If
not specified, it is assumed to be 0. The
permissible range of values for this item
is 0 thru 15; however, it must be less
than or equal to the specified "left bit".

If more than one +pos specification is provided, successive
specifications will be used only if preceding specifications
compare equal. A maximum of ten key specifications may be
provided.

FILES
/tmp/sort??<PID>

LIBRARY
DIAGNOSTICS
If this task is successful, a 0 is returned to the parent pro-
cess. If the task is not successful, an appropriate error mes-
sage is printed, via SCCERR, and one of the following error codes
is returned to the parent process.

```
1  --  Can not create new temp file.
2  --  Can not create output file.
3  --  Can not open previously created file.
4  --  Improper argument for record size.
5  --  Not used.
6  --  Delete signal caught.
7  --  Invalid '-' option.
8  --  Invalid key specification.
9  --  Too many sort keys.
10 --  No valid input files.
```

BUGS