

## Rebuilding C-ISAM files with an empty IDX file

This article relates to KB Item [23664](#).

It is sometimes useful to be able to use an empty idx file to be used for rebuilding a C-ISAM file with a new key structure, instead of specifying every key on the rebuild command line with the -k option.

However, creating a new idx file, copying it to the data file, and rebuilding the C-ISAM data file by one of the following commands:

- rebuild infile
- rebuild infile, outfile

results in a message like "records read = 0".

This is because the Micro Focus C-ISAM file handler will by default use the logical end of file marker obtained from the index file header to determine the maximum number of records to process in the data file. If the index file is corrupted or a mismatching index file is overlaid for a given data file, using Rebuild with default behaviour will not recover all the records in the data file but only those specified by the logical end of file marker.

Rebuild now contains functionality that when enabled will process all the records (via a data scrape) within the data file by overriding the logical end of file maker (will use the physical end of the data file).

Example usage:

The new option is /d:c (Windows), -d:c (UNIX/Linux), which is only valid for CISAM files, and which will attempt to recover all valid records from the data file via a data scrape to the physical end. Below are two examples of its usage.

- rebuild infile /d:c
- rebuild infile, outfile /d:c

Additional Notes:

**WARNING:** Using a 3rd party C-ISAM file handler in conjunction with this new Rebuild functionality, may result in the recovery of deleted records within the data file.

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The new functionality exists from Server Express 5.0 and Net Express 5.0 onwards.

The attached [example](#) can be used to demonstrate it.  
compile and run the demo will result in 4 files, on Unix:

empty.dat.idx  
empty.dat  
full.dat.idx  
full.dat

now copy empty.dat.idx to full.dat.idx  
then the rebuild can be done by the above mentioned commands