

# How do I migrate indexed files to a format that is supported by isCOBOL?

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Saved From: <http://support.veryant.com/support/phpkb/question.php?ID=8>

Question:

I have indexed files from my legacy application and want to migrate them to either isCOBOL JISAM or c-treeRTG. What are my options for doing this?

Answer:

1. Use a utility provided with the original ISAM file system to dump all of the records into a binary sequential file, and then use the corresponding utility from the target ISAM file system to load those records into an empty file. This method is known as "Unload/Load".
2. Use the isCOBOL ISMIGRATE utility or run a COBOL program that reads records from the original ISAM file and writes them out to the target ISAM file.

## First Method - Unload/Load

Here are the instructions for using the unload/load method to migrate for example a Vision file to isCOBOL JISAM:

1. Run a program that creates an empty file in JISAM format. Just set `iscobol.file.index=jisam` and then OPEN OUTPUT and CLOSE the file.
2. Unload the records from the Vision file into a binary sequential file

```
vutil -unload
```

3. Load the records from the binary sequential file into JISAM file

```
java JUTIL -load
```

1. Run a program to create the empty JISAM file:

```
select jisamfile assign to "jisamfile"  
       organization indexed  
       record key jisamfile-key.
```

```
fd jisamfile.  
01 jisamfile-rec.  
   03 jisamfile-key pic 9(5).  
   03 jisamfile-data pic x(100).
```

```
set environment "file.index" to "jisam".
open output jisamfile.
close jisamfile.
```

Run vutil -unload

```
vutil32 -unload visionfile seqfile
```

## 2. Run JUTIL -load

```
java JUTIL -load jisamfile seqfile
```

When you run vutil and JUTIL specify the ISAM file name without the extensions added by the file system (e.g. visionfile instead of visionfile.vix).

For further information see the documentation for vutil in the Acucorp docs and for JUTIL in the isCOBOL docs (User Guide : Utilities : JUTIL).

## Second Method - ISMIGRATE

### 1. Create an ismigrate.properties text file and copy/paste the following in it:

```
iscobol.ismigrate_input_file_index=com.iscobol.io.ScanVision
iscobol.ismigrate_output_file_index=jisam
```

### 2. Run ISMIGRATE

```
java -Discobol.conf=ismigrate.properties ISMIGRATE visionfile
outputdirectory
```

### 3. If you prefer, you can run ISMIGRATE without parameters, so the wizard interface appears and you need to set the correct input file index type:

```
"ACUCOBOL Vision (com.iscobol.io.ScanVision)" for Vision
"RM/COBOL (com.iscobol.io.ScanRMKF)" for RM files
"Micro Focus (com.iscobol.io.ScanMF)" from MF files
```

For further information on ISMIGRATE please review the documentation in the isCOBOL SDK User Guide.

## Migrating to c-treeRTG

### 1. Set iscobol.file.index to ctrees

```
iscobol.file.index=ctrees
```

In the COBOL program that creates the empty file

```
set environment "file.index" to "ctreej".
```

2. **Instead of JUTIL, use ctutil as follows:**

```
ctutil -load /datadirectory/ctreefile seqfile -b
```

**Note:** Unless configured otherwise, ctreeRTG uses the directory where the server (ctreesql) was started as the data directory. Paths are relative to that directory. If you get errors running ctutil, then try specifying the c-tree filename using an absolute path, but still without the file extension.

1. Set the iscobol.ismigrate\_output\_file\_index to ctree in the ismigrate.properties file

```
iscobol.ismigrate_output_file_index=ctreej
```

If running ISMIGRATE with the wizard interface, choose "c-tree RTG - Java Interface (ctreej)" in the destination indexed file type.