# How to Transform CMZ files to CVS directories

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## 1 Transform CMZ Files into Source Directories

- Set a path to ...
  $HB/cvs/bin
  and to ...
  $HB/bin
  (in this order; $HB/bin will be abandoned later)

- Start CMZ with the standard HERA-B start-up procedure.

- type the following CMZ commands:
  SET '#include "$SEQ.fi"' -INC F77
  CXTRACT *
  EXIT

- change directory:
  cd hbcdir

- delete all *.fi files except those written by you.

- go back
  cd ..

- type the following UNIX command:
  find hbcdir/* -type f -exec hbcmz2cvs {} \;
  # type a blank space after \; (this is not a joke)

- This creates an new directory hbcdir-new which should be renamed (mv) to its final name. The #include statements in all files are modified according to the new naming conventions (unless your CMZ file contains sequences not known to Arte).

- Go into the new directory:
  cd whatever_the_new_name_is
  Type the command:
  hbchangeext .f .F
  This changes the name extension of Fortran files .f into .F (necessary to run the C preprocessor with Fortran files).

## 2 Include Files

| CMZ | CVS |
|---|---|
| +SEQ, ZARCOM | #include "Arte.fi" |
| part of ZARCOM | #include "ArteFlag.fi" |
| description | #include "ArteFlag.help" |
| +SEQ, ZARFUN | #include "Arte.ff" |
| +SEQ, ZARUTI | #include "ArteUtil.fi" |
| +SEQ, ZARZEB | #include "ArteZebra.fi" |
| +SEQ, ZIOLUN | #include "ArteIOlun.fi" |
| +SEQ, ZMMCOM | #include "ArteLink.fi" |
| +SEQ, ZUSDIM | #include "UserDim.fi" |
| +SEQ, ZUSNAM | #include "UserName.fi" |
| #include "UserLink.h" | #include "UserName.h" |
| #include "Arte.icc" | #include "Pointer.icc" |
| | |
| +SEQ, YMTRA | #include "MTRA.fi" |
| +SEQ, YMTRAF | #include "MTRA.ff" |
| etc. for all automatically generated include files | |