

How to build Enhanced DR-DOS from ecm repo

2023 by C. Masloch. Public Domain.

This document has been compiled on 2023-08-20.

1. Set up dosemu2
 1. Make sure to use FreeCOM as the shell
 2. When redirecting a host directory to a DOS drive using -K, then the DOS drive I: still must be unused
 3. A recent FreeCOM build can be obtained from the build at <https://pushbx.org/ecm/download/freecom.zip>
 4. There is a blog post on how to set up dosemu2: <https://pushbx.org/ecm/dokuwiki/blog:pushbx:setupdosemu2>
2. Set up WarpLink
 1. Build WarpLink (requires NASM, dosemu2, and warplink.exe itself) or obtain a build
 2. Place resulting executable in DOS PATH as warplink.exe
 3. A build can be obtained from <https://pushbx.org/ecm/download/warplink.zip> (rename w1.exe to use it as warplink.exe)
3. Set up x2b2
 1. Build x2b2 (requires NASM and lmacros) and place in DOS PATH
 2. A build can be obtained from <https://pushbx.org/ecm/download/x2b2.zip>
4. Set up JWasm
 1. Build DJGPP executable of JWasm and place as C:\BIN\JWASM.EXE
 2. A build can likely be obtained from <https://github.com/Baron-von-Riedesel/JWasm/releases/>
5. Set up OpenWatcom
 1. Insure to have no files in DOS named C:\CONFIG.SYS or C:\AUTOEXEC.BAT

2. Download OpenWatcom 1.9 DOS installer from <http://openwatcom.org/ftp/install/open-watcom-c-dos-1.9.exe>
 3. Run installer in dosemu2
 4. Install to C:\WATCOM
 5. Choose the full installation
 6. Choose for the installer to 'Make all the modifications for you'
 7. Rename the created file C:\AUTOEXEC.BAT to C:\AUTOWAT.BAT after the installer is done
 8. The created file C:\CONFIG.SYS should have just the line FILES=20 so make sure to configure at least that many SFT entries in FDCONFIG.SYS
6. Run mak script from edrdos repo (repo root as host cwd), as `./mak.sh`
 7. Alternatively, set up DOS drive I: to point to the repo's drdos/ subdirectory, call the C:\AUTOWAT.BAT file (only needed for building command.com), then run one of the make.bat scripts from one of the subdirectories (drbio/, drdos/, or command/ subdirectory as DOS cwd).
 8. Find files drbio.sys, drdos.sys, and command.com in the subdirectories drbio/bin/, drdos/bin/, and command/bin/
 9. To use Enhanced DR-DOS kernel packing:
 1. Unpack upx.exe from pack100.zip
 2. Unpack all files from pack101.zip
 3. The archives can be found at <https://pushbx.org/ecm/download/edrdos/>
 4. Place drbio.sys and drdos.sys in same directory
 5. Make sure that the files are fresh and not yet compressed by this packer
 6. Make sure that the command debug resolves to a debugger with at least a basic expression evaluator (lDebug will do, DR-DOS Debug too)
 7. Run PACKBIO.BAT and PACKDOS.BAT in DOS
 10. To build this document, you need the Halibut document preparation system
 1. Grab sources from <https://www.chiark.greenend.org.uk/~sgtatham/halibut/>
 2. You may want to get a patch from <https://github.com/ecm-pushbx/halibut/commit/1ccc3ac>

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If this is in ecm's repository, you can find it at
<https://hg.pushbx.org/ecm/edrdos/rev/b390f7f10fd0>