

How to build Enhanced DR-DOS from ecm repo

2023 by C. Masloch. Public Domain.

This document has been compiled on 2024-07-24.

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. Set up IA16 gcc
 1. Use <https://gitlab.com/tkchia/build-ia16>
 2. Make ia16-elf-gcc available in the Linux path
 7. Set up the following repos as sister directories of the edrdos repo: (accessible as ../REPO/ from edrdos repo)
 1. lmacros
 2. ldosboot
 3. inicom
 4. scanptab
 8. Make lzip available in the Linux path, from <https://www.nongnu.org/lzip/>
 9. Make NASM available in Linux path
 10. Run mak script from edrdos repo (repo root as host cwd), as ./mak.sh
 11. 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).
 12. Find files edrdos.sys, edrpack.sys, edrdos.com, or edrpack.com in repo root, and command.com in the subdirectory command/bin/
 13. 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>

The pack100/pack101 EDR-DOS kernel packing using UPX is no longer supported in the IDOS EDR-DOS fork starting 2023 December. Use the build files edrpack.sys or edrpack.com instead.

Contents

Source Control Revision ID 4

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hg 988a9dd9add1, from commit on at 2024-07-24 21:33:26 +0200

If this is in ecm's repository, you can find it at
<https://hg.pushbx.org/ecm/edrdos/rev/988a9dd9add1>