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adamansky 25 days ago Update WIN32.md

1 contributor

108 lines (65 sloc)   3.078 kb   Raw   Blame   History   🖥 ✏ 🗑

Precompiled windows binaries

- tcejdb-1.1.26-mingw32-i686
- tcejdb-1.1.26-mingw32-x86_64

Installing EJDB NodeJS win32 module

Building EJDB and TokyoCabinet for windows

All TokyoCabinet and EJDB API are ported to windows!

Prerequsties

- Install **Linux x64 OS** (tested on debian/ubuntu)
- Install all these packages:

```
autoconf automake bash bison bzip2 cmake
flex gcc intltool libtool make openssl
patch perl pkg-config scons sed unzip
wget xz-utils yasm zip wine git
```

Creating build environment

You need to checkout specific branch of MXE cross build environmen to build win32 and win64 binaries:

```
git clone https://github.com/mxe/mxe.git
git checkout multi-rebase
```

Then create MXE settings file:

```
cd <mx checkout dir>
nano ./settings.mk
```

And enter the following settings into ./settings.mk :

```
JOBS := 1
MXE_TARGETS := x86_64-w64-mingw32 i686-w64-mingw32
#SOURCEFORGE_MIRROR := downloads.sourceforge.net
LOCAL_PKG_LIST := winpthreads pcre zlib cunit
.DEFAULT local-pkg-list:
local-pkg-list: $(LOCAL_PKG_LIST)
```

Then make MXE build env:

```
cd <mx checkout dir>
make
```

Building EJDB and TokyoCabinet

```
git clone https://github.com/Softmotions/ejdb.git
cd ejdb
```

To make win build we have to run this script: tcejdb/mxe/mxe-build.sh

```
mxe-build.sh <mxe home path> w32|w64 [optional ./configure options]
```

Example: building win32 binaries + EJDB test cases

```
tcejdb/mxe/mxe-build.sh ${HOME}/mxe w32 "--enable-tests"
```

Example: building win64 binaries:

```
tcejdb/mxe/mxe-build.sh ${HOME}/mxe w64
```

As result you will get zip archive in the folder `./tcejdb` : `tcejdb-1.1.25-mingw32-i686.zip` or `tcejdb-1.1.25-mingw32-x86_64.zip`

In those archives you will found:

- TC/EJDB header files `./include/tcejdb`
- library DLL: `tcejdbdll.dll` **(Exported All TokyoCabinet and EJDB API)**
- DLL Import library for MSVC: `tcejdbdll.lib(.exp)` and for GCC: `libtcejdbdll.a`
- Library for static linking: `libtcejdb.a`

Sample code

Sample code can be found in `./tcejdb/samples/`

- `sample1_mingw` Netbeans project for MinGW build env
- `sample1_win32` Visual studio express 2010 solution

Notes

- In order to build MSVC import library we need Microsoft's `lib.exe` tool, it automatically downloaded by `mxe-build.sh` from my dropbox account. So do not be surprised =)
- Database files size on windows 32-bit are limited to 2GB, because on win32 all data is memory mapped.
- HDB `tchdbsetxmsiz()` takes no effect because all file data is memory mapped on windows platform.