EDK2 EmulatorPkg setup

Prerequisites:

Install nasm compiler (<https://www.nasm.us/pub/nasm/releasebuilds/2.12.02/win64/>) to C:\nasm

Install Python 3

Copy ASL tools(<https://acpica.org/downloads/binary-tools>) to C:\ASL

1. Create a folder edk2-ws.
2. Open command prompt, and cd to edk2-ws
3. git clone <https://github.com/tianocore/edk2.git> -b edk2-stable202002
4. git clone <https://github.com/tianocore/edk2-libc.git>
5. Now open VS developer cmd prompt, and cd to edk2-ws
6. set WORKSPACE=%CD%

set PACKAGES\_PATH=%WORKSPACE%\edk2;%WORKSPACE%\edk2-libc

set NASM\_PREFIX=C:\nasm\

1. cd edk2
2. edksetup.bat Rebuild (if building first time), otherwise execute edksetup.bat
3. notepad Conf/target.txt, and edit the following.

"TOOL\_CHAIN\_TAG = VS2017", "TARGET\_ARCH = X64", and "ACTIVE\_PLATFORM = EmulatorPkg\EmulatorPkg.dsc".

|  |  |
| --- | --- |
| VS Version | TOOL\_CHAIN\_TAG |
| 2010 | VS2010x86 |
| 2012 | VS2012x86 |
| 2013 | VS2013x86 |
| 2015 | VS2015x86 |
| 2017 | VS2017 |
| 2019 | VS2019 |

1. build -D ADD\_SHELL\_STRING -a X64
2. Run ..\Build\EmulatorX64\DEBUG\_VS2017\X64\WinHost.exe

EDK2 OvmfPkg with QEMU

Prerequisites:

Install nasm compiler (<https://www.nasm.us/pub/nasm/releasebuilds/2.12.02/win64/>) to C:\nasm

Install Python 3

Copy ASL tools(<https://acpica.org/downloads/binary-tools>) to C:\ASL

1. Create a folder edk2-ws.
2. Open command prompt, and cd to edk2-ws
3. git clone <https://github.com/tianocore/edk2.git> -b edk2-stable202002
4. git clone <https://github.com/tianocore/edk2-libc.git>
5. git submodule update --init
6. Now open VS developer cmd prompt, and cd to edk2-ws
7. set WORKSPACE=%CD%

set PACKAGES\_PATH=%WORKSPACE%\edk2;%WORKSPACE%\edk2-libc

set NASM\_PREFIX=C:\nasm\

1. cd edk2
2. edksetup.bat Rebuild (if building first time), otherwise execute edksetup.bat
3. notepad Conf/target.txt, and edit the following.

"TOOL\_CHAIN\_TAG = VS2017", "TARGET\_ARCH = X64", and "ACTIVE\_PLATFORM = OvmfPkg\OvmfPkgX64.dsc".

1. Build
2. qemu-system-x86\_64 -bios C:\Users\mpalad1x\Desktop\Manoj\SourceCode\Workspace\edk2\edk2-stable202002\Build\OvmfX64\DEBUG\_VS2017\FV\OVMF.fd