## Operating instructions document.

## 1.1 Developing Environment

To get all the source code of the SylixOS and a simulator to provide the corresponding environment. We need ReadEvo and RealEvo-Simluator.

Follow the instruction:

 $\mathsf{File} \to \mathsf{New} \to \mathsf{Project} \to \mathsf{SylixOS} \; \mathsf{Project} \to \mathsf{SylixOS} \; \mathsf{Base}$ 

to get the initial source code of SylixOs.

## 1.2 Instructions

We can replace directory /SylixOS/libsylixos/SylixOS/shell/fsLib and /SylixOS/libsylixos/SylixOS/shell/ttinyShell with the files we provide. And then we can click build button on the upper-left to begin the compiling process(Figure 1).

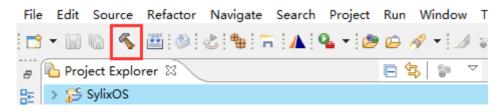


Figure 1

After compiling, we then need to build a Bsp project base on the former base project, and compile it directly after build.

The instruction is similar with the former:

 $\mathsf{File} \to \mathsf{New} \to \mathsf{Project} \to \mathsf{SylixOS} \ \mathsf{Project} \to \mathsf{SylixOS} \ \mathsf{Bsp}$ 

When finished, we will get a .bin file(Figure 2) under the "Debug" or "Release" directory(note if you use "x86" structure, .elf instead). And then we replace the kernel file in simulator with the .bin file we get.(e.g. like we show in mini2440 in Figure 3)

```
> 👺 SylixOS
v 📂 SylixOSBsp
                > 🐉 Binaries
                > 🔊 Includes
                🗸 🗁 Debug
                               🗦 🗁 dep
                                  🗦 🗁 obj
                                    > 🗁 strip
                                    > $\square$ SylixOSBsp.elf - [arm/le] [T: 4.6 MB D: 5.0 MB]
                                                SylixOSBsp.bin
                                                   SylixOSBsp.lzo
                                                   SylixOSBsp.siz
                > 🗁 SylixOS
                > 🖟 config.h
                                  config.ld
                                 config.lds
                               là config.mk
                               laction Makefile
                                 readme.txt

    SylixOSBsp.mk
    Syl
```

Figure 2

Setting VM			×
Name:	mini2440		
Program:	qemu-system-mini2440.exe		
Machine:	mini2440 FriendlyARM (S30	2440)	
Kernel File:	vo_workspace/SylixOSBsp/Debug/SylixOSB	Ssp.bin	Cho
MTD File:	./vm/mini2440/mini2440_nand.img	Cho	Cre
PFlash File:		Cho	Cre
HDA File:		Cho	Cre
SD File:		Cho	Cre
Virtual Network Adapter:	Do not use  GDB Debug Port:  Secondary Serial TCP Server Port:  OK	123 123 Canc	4 <b>\$</b> 5 <b>\$</b>

Figure 3