- 1. nice 有用 -> 找出 nice 如何讓使用者調整 CPU time 或優先權
- 2. osdi-master qemu 跑不動
- 3. 更改 cfs, 測試 demu 是否有編譯功能 --> 沒有
- 4. 更改 cfs,測試 makefile 編譯是否能出現 有關於 cfs 的 error
- 5. 但是編譯: osdi-2019 的 makefile 編譯錯誤

```
VirtualBox:~/桌面/osdi2019/kernel-4.0/linux-4.0$ make
    HOSTCC scripts/basic/fixdep
HOSTCC arch/x86/tools/relocs_32.0
HOSTCC arch/x86/tools/relocs_64.0
HOSTCC arch/x86/tools/relocs_64.0
In file included from arch/x86/tools/relocs_64.c:17:
In function 'sort_relocs',
   inlined from 'emit_relocs' at arch/x86/tools/relocs.c:995:2,
   inlined from 'process_64' at arch/x86/tools/relocs.c:1099:2:
arch/x86/tools/relocs.c:953:2: warning: argument 1 null where non-null expected [-Wnonnull]
953 | qsort(r->offset, r->count, sizeof(r->offset[0]), cmp_relocs);
arch/x86/tools/relocs.c: In function 'process_64':
/usr/include/stdlib.h:830:13: note: in a call to function 'qsort' declared here
830 | extern void qsort (void *_base, size_t __nmemb, size_t __size,
                    arch/x86/tools/relocs_common.o
    HOSTLD arch/x86/tools/relocs
CHK include/config/kernel.release
                     include/generated/uapi/linux/version.h
     CHK
     CHK
                     include/generated/utsrelease.h
In file included from include/linux/compiler.h:54,
from include/uapi/linux/stddef.h:1,
from include/linux/stddef.h:4,
from include/linux/stddef.h:4,
from include/uapi/linux/posix_types.h:4,
from include/uapi/linux/types.h:13,
from include/linux/types.h:5,
from include/linux/page-flags.h:8,
from kernel/bounds.c:9:
include/linux/compiler-acc.h:107:1: fatal error: linux/compi
                     kernel/bounds.s
 include/linux/compiler-gcc.h:107:1:
                                                                                                  or: linux/compiler-gcc9.h: 沒有此一檔案或目錄
                          lude gcc_header(__GNUC__)
 compilation terminated.
make[1]: *** [Kbuild:43:kernel/bounds.s] 錯誤 1
make: *** [Makefile:995:prepare0] 錯誤 2
```

6. 待做事項:

- 1. 建立 linux/compiler-qcc9.h
- 2. 看 qemu 能不能跑

7. 提問:

- 1. makefile 是用來編譯 source code 的嗎
- 2. nice 的參考?