

```
/*
* I borrow the function from arch/arm/kernel/setup.c
*/
extern void __init early_print(const char *str, ...);
#define MY_BUG() do { \
    early_print("BUG: failure at %s:%d/%s()!\n", __FILE__, __LINE__, __func__); \
    dump_stack(); \
    while(1); \
} while (0)
#define MY_BUG_ON(condition) do { if (unlikely(condition)) MY_BUG(); } while(0)
#define MY_DBG_MSG(msg) do { \
    early_print("%s: %s\n", __func__, msg); \
} while(0)
#else
           !USE_EARLY_PRINT
#define MY_KERNEL_PRINTK
                              printk
#define MY_BUG() do { \
    dump_stack(); \
    while(1); \
} while (0)
#define MY_BUG_ON(condition) do { if (unlikely(condition)) MY_BUG(); } while(0)
#define MY_DBG_MSG(msg) do { \
```

```
printk("%s: %s\n", __func__, msg); \
} while(0)
#endif
             end USE_EARLY_PRINT
        //
#else
        //
            !MY_KERNEL_DEBUG
#define MY_BUG()
#define MY_BUG_ON(condition)
#define MY_DBG_MSG(msg)
#define MY_KERNEL_PRINTK
                            dummy_print
// hope the gcc is smart enough, could make the dummy function null when optimization is enabled.
static void __init dummy_print(const char *str, ...) {}
#endif
            end MY_KERNEL_DEBUG
#ifdef MY_KERNEL_DEBUG
#define MY_CODE_FOR_DEBUG(code)
                                           code
#else
#define MY_CODE_FOR_DEBUG(code)
#endif
```