

Suzuha - operating system for

ARM Cortex M3, M4

```
void scheduler()  
/*death times priority round robin*/  
u32 i, min_i=__current_task__;
```

Features

```
for (i=0; i<TASK_MAX_COUNT; i++) /*find task with minimum counter value*/  
if ( ((__task__[i].flag&TF_CREATED)!=0) && (__task__[i].cnt<__task__[min_i].cnt) )  
min_i=i;
```

- * preemptive multitasking

```
for (i=0; i<TASK_MAX_COUNT; i++) /*decrement counters*/  
if ( (__task__[i].flag&TF_CREATED)!=0 )  
__task__[i].cnt--;
```

- * high modularity

- * priority scheduling

```
__task__[min_i].cnt=__task__[min_i].icnt; /*set initial counter value*/  
__current_task__=min_i;
```

```
#else  
/*round robin*/  
do  
{  
__current_task__++;  
if ( __current_task__>=TASK_MAX_COUNT )  
__current_task__=0;  
}  
while ( ( (__task__[__current_task__].flag&TF_CREATED)==0) );  
#endif  
}
```

- * locks - mutexes

- * messages

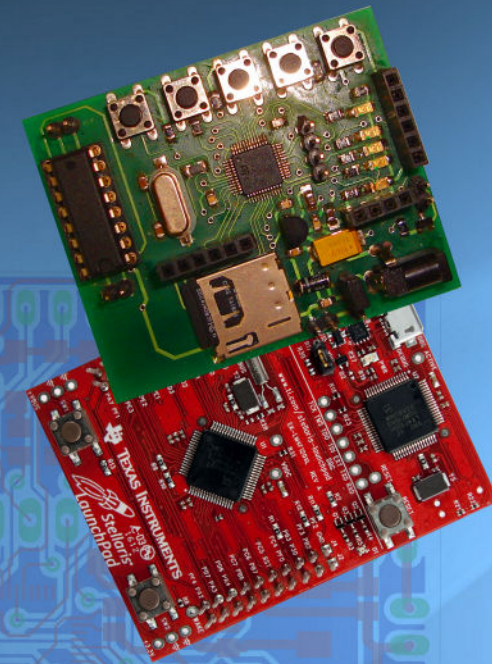
- * cli and file system

- * small size - 5kB

- * short response time

- * portability for Cortex M3 STM32 and Cortex M4 Stellaris

- * development with open source tools



FREE SOFTWARE
FOUNDATION



TEXAS
INSTRUMENTS

