

# Zlepšení systému logování

Petr Zelina

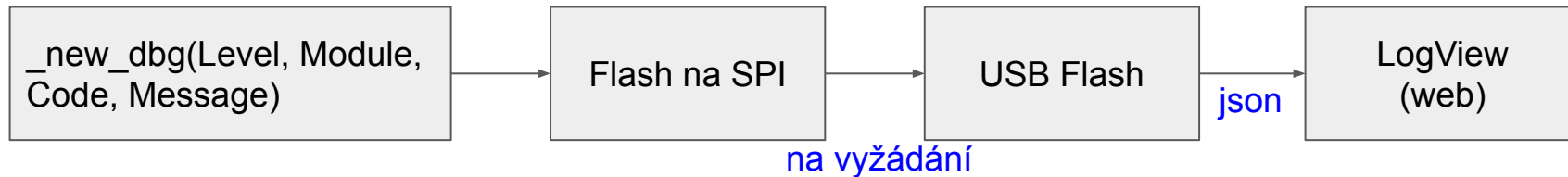
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### Původní řešení:



### Nové řešení:



## Formát zprávy:

Time Stamp	Level:	Module:	Error code	Message
	UNDEFINED	FreeRTOS		
	DEBUG	Marlin		
	INFO	GUI		
	WARNING	Storage		
	ERROR	....		
	FATAL			
	...			



```
1 {"ms":14693, "type":"Debug", "source":"GUI", "code":1005, "message":"TIM0: 14693"},
2 {"ms":16693, "type":"Debug", "source":"GUI", "code":1005, "message":"TIM1: 16693"},
3 {"ms":20693, "type":"Debug", "source":"GUI", "code":1005, "message":"TIM1: 20693"},
4 {"ms":24693, "type":"Debug", "source":"GUI", "code":1005, "message":"TIM1: 24693"},
5 {"ms":28693, "type":"Debug", "source":"GUI", "code":1005, "message":"TIM1: 28693"},
6 {"ms":32693, "type":"Debug", "source":"GUI", "code":1005, "message":"TIM1: 32693"},
7 {"ms":36693, "type":"Debug", "source":"GUI", "code":1005, "message":"TIM1: 36693"},
8 {"ms":40693, "type":"Debug", "source":"GUI", "code":1005, "message":"TIM1: 40693"},
9 {"ms":48731, "type":"Debug", "source":"GUI", "code":1002, "message":"Erase log memory."},
10 {"ms":49991, "type":"Debug", "source":"GUI", "code":1002, "message":"Erase log memory."},
11 {"ms":50451, "type":"Debug", "source":"GUI", "code":1002, "message":"Erase log memory."},
12 {"ms":61417, "type":"Debug", "source":"GUI", "code":1000, "message":"Save log to file on USB ok."},
13 {"ms":62367, "type":"Error", "source":"GUI", "code":1001, "message":"Save log to file on USB failed."},
14 {"ms":63956, "type":"Debug", "source":"GUI", "code":1002, "message":"Erase log memory."}
```

File name: **log.json**, size: 1249 B

#	Time [ms]	Event type	Source	Code	Message
1	14693	Debug	GUI	1005	TIM0: 14693
2	16693	Debug	GUI	1005	TIM1: 16693
3	20693	Debug	GUI	1005	TIM1: 20693
4	24693	Debug	GUI	1005	TIM1: 24693
5	28693	Debug	GUI	1005	TIM1: 28693
6	32693	Debug	GUI	1005	TIM1: 32693
7	36693	Debug	GUI	1005	TIM1: 36693
8	40693	Debug	GUI	1005	TIM1: 40693
9	48731	Debug	GUI	1002	Erase log memory.
10	49991	Debug	GUI	1002	Erase log memory.
11	50451	Debug	GUI	1002	Erase log memory.
12	61417	Debug	GUI	1000	Save log to file on USB ok.
13	62367	Error	GUI	1001	Save log to file on USB failed.
14	63956	Debug	GUI	1002	Erase log memory.

Next file:  No file chosen

### Problém:

- Nefunguje zápis na flash disk (data zatím přesměrována do konzole)
- Nefunční SPI flash paměť na jedné z desek (druhá funguje)

### Pokračování:

- Vyřešit problém se zápisem na flash disk
- Zaměnit všechny \_dbg funkce za nové
- Přepsat driver pro SPI flash s využitím DMA (pokud je volný DMA kanál)
- Vylepšit **logview** o filtrování
- Odeslání logu přímo přes HTTP nebo MQTT

### GitHub:

Branch - Datalog