

Print Job Timer

Feature Name: Print Job Timer

Feature Name in Annotation: Print_Job_Timer

Source of Information

Domain knowledge, Code comment, Source Code, ifdefs

Strategy Used:

Through 3D printer construction, we learned that there are timers that are calculated to be shown for the time it requires to print. Then we started from the largest and most central logic file MarlinMain.cpp, and browsing through the code comment and source code, and we found the timers logics surrounded with ifdefs. These source code are annotated, and the other files are also checked to find the rest of the feature.

Feature Description:

This feature is optional for Marlin, and it is responsible for calculating the reporting the time it takes for the printer to print an object

Time spent: This feature is one of 18 features that were located by manually going through all code files of Marlin using our source code method. It took one person 25 hours to identify all 18 features.

Feature Characteristics:

Feature Name	LoFC	SD	TD	Completely Wrapped by ifdef
Print Job Timer	11	2	2	Yes

Ratios of sources (%)

RL	PR	CM	Ifdef	DK	CC	SC	GD
0	0	0	35	20	10	40	0

RL: Release Log; **PR:** Pull Request; **CM:** Commit, **Ifdef:** Ifdef Expression; **DK:** Domain Knowledge; **CC:** Code Comment; **SC:** Source Code; **GD:** G-Code Documentation.