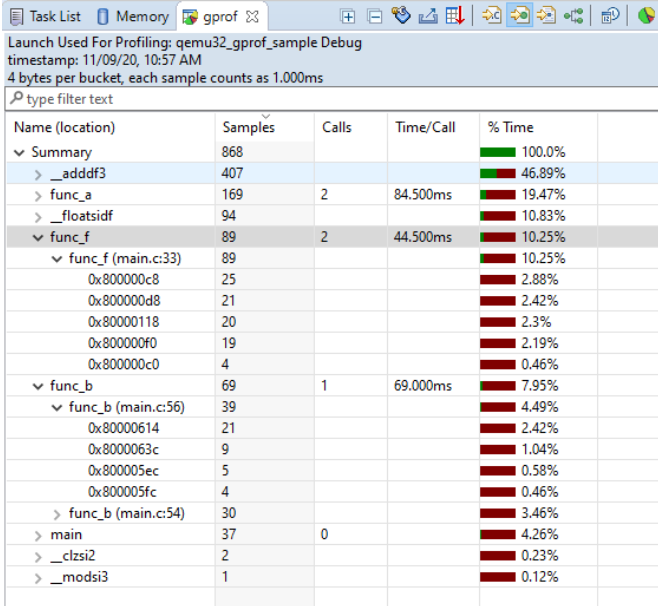


Execution Profiling Tool for RISC-V and ARM from Ashling

November 9th, 2020 – LIMERICK, IRELAND.

Ashling announces availability of an integrated Code Execution Profiling Tool for Arm and RISC-V based applications within Ashling's **RiscFree™** IDE and debug solution.

Execution Profiling is a critical tool enabling optimisation and speed improvements in embedded applications. The tools allow developers to determine where the application computing time is spent allowing them to focus their optimisation and speed-improvement efforts on the program areas which will give most return. The profiling display within **RiscFree™** provides the developer with a histogram showing total execution time for the individual profiled functions. The call-graph display provides information on how many times individual functions were called and from where. These tools provide developers with a powerful mechanism to ensure the code is executing as efficiently as possible.



Launch Used For Profiling: qemu32_gprof_sample Debug
timestamp: 11/09/20, 10:57 AM
4 bytes per bucket, each sample counts as 1.000ms

Name (location)	Samples	Calls	Time/Call	% Time
Summary	868			100.0%
> _adddf3	407			46.89%
> func_a	169	2	84.500ms	19.47%
> _floatsidf	94			10.83%
▼ func_f	89	2	44.500ms	10.25%
▼ func_f (main.c:33)	89			10.25%
0x800000c8	25			2.88%
0x800000d8	21			2.42%
0x80000118	20			2.3%
0x800000f0	19			2.19%
0x800000c0	4			0.46%
▼ func_b	69	1	69.000ms	7.95%
▼ func_b (main.c:56)	39			4.49%
0x80000614	21			2.42%
0x8000063c	9			1.04%
0x800005ec	5			0.58%
0x800005fc	4			0.46%
> func_b (main.c:54)	30			3.46%
> main	37	0		4.26%
> _clzsi2	2			0.23%
> __modsi3	1			0.12%

RiscFree Profiling Display

RiscFree™ IDE, Ashling's professional, commercial grade software development environment includes support for embedded 32-bit and 64-bit Arm and RISC-V based devices. The Eclipse based IDE for RISC-V development is a seamless environment for software development from writing and building code to simulating and hardware debugging. **RiscFree™ IDE** has heterogeneous multicore debug capabilities and can be used together with Ashling's Opella-XD hardware debug probe and OpenOCD compatible probes.

Press Release

About Ashling Microsystems

Ashling Microsystems is an international Embedded Software Solutions and Debug Tools company, providing high-performance software and hardware tools for a range of embedded 32-bit and 64-bit architectures. Through its close cooperation with leading semiconductor vendors, Ashling is a world leader in the Embedded Software Development Tools market. Ashling's development centre is in Limerick Ireland. Ashling has sales and support representatives worldwide. Visit

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