

From: [Bassham, Lawrence E. \(Fed\)](#)
To: [Kang, Jinkeon \(IntlAssoc\)](#); [Hasan, Munawar \(IntlAssoc\)](#)
Subject: Re: LWC Benchmarking
Date: Thursday, September 23, 2021 11:30:31 AM

That sounds like a good plan to me: create a new GitLab project.

From: Kang, Jinkeon (IntlAssoc) <jinkeon.kang@nist.gov>
Date: Thursday, September 23, 2021 at 11:17 AM
To: Bassham, Lawrence E. (Fed) <lawrence.bassham@nist.gov>, Hasan, Munawar (IntlAssoc) <munawar.hasan@nist.gov>
Subject: Re: LWC Benchmarking

Hi, Larry and Munawar,

Regarding GitLab, the current LWC benchmarking project was created under Cagdas' account.

<https://gitlab.nist.gov/gitlab/cnc4/lwc-benchmarking>

Project name: LWC Benchmarking

It would be better to create a new GitLab project for LWC finalists.

My suggestion is to

- Leave the current project as it is
- Create a new project with the name "LWC Finalists Benchmarking"
- Copy all benchmarking source files, but replace round 2 candidates with finalists
- Renew remarks and explanation
- Simulate and update with new benchmarking project

What is your opinion or any suggestions? If it's okay, I can create a new project and add you as collaborators.

Thanks,
Jinkeon

From: Kang, Jinkeon (IntlAssoc) <jinkeon.kang@nist.gov>
Sent: Thursday, September 23, 2021 8:58 AM
To: Bassham, Lawrence E. (Fed) <lawrence.bassham@nist.gov>; Hasan, Munawar (IntlAssoc) <munawar.hasan@nist.gov>
Subject: Re: LWC Benchmarking

Hi, Larry,

We tested two microcontrollers you gave.

Digilent uC32 (PIC32MX340F512H): it uses a different type of USB port, USB-B MINI, so we ordered the cable and are waiting for the delivery.

Espressif ESP8266 (Tensilica L106): working well

Munawar is working on correcting some bugs in the python source codes for generating the graph from benchmarking output files. Once it is done, we will share them on GitLab.

Jinkeon

From: Kang, Jinkeon (IntlAssoc) <jinkeon.kang@nist.gov>

Sent: Thursday, September 23, 2021 8:49 AM

To: Bassham, Lawrence E. (Fed) <lawrence.bassham@nist.gov>; Hasan, Munawar (IntlAssoc) <munawar.hasan@nist.gov>

Subject: Re: LWC Benchmarking

Hi, Larry,

We tested two microcontrollers you gave.

Cagdas and Tyler were the "Maintainer" of LWC Benchmarking project in GitLab, and I and Munawar (even you) were added as "Developer". We need a "Maintainer" access level, but I am not sure who is the owner of this project, so can you update our access level or find who has that authority?

Jinkeon

From: Bassham, Lawrence E. (Fed) <lawrence.bassham@nist.gov>

Sent: Monday, September 20, 2021 3:27 PM

To: Kang, Jinkeon (IntlAssoc) <jinkeon.kang@nist.gov>; Hasan, Munawar (IntlAssoc) <munawar.hasan@nist.gov>

Subject: Re: LWC Benchmarking

Have either of you uploaded round3/final round candidates to the internal GitLab yet? Looking around where the round2 stuff I don't see them.

On: 16 September 2021 12:29,

"Kang, Jinkeon (IntlAssoc)" <jinkeon.kang@nist.gov> wrote:

Munawar said he will meet you there.

Jinkeon

From: Bassham, Lawrence E. (Fed) <lawrence.bassham@nist.gov>
Sent: Thursday, September 16, 2021 12:01 PM
To: Hasan, Munawar (IntlAssoc) <munawar.hasan@nist.gov>; Kang, Jinkeon (IntlAssoc) <jinkeon.kang@nist.gov>
Subject: Re: LWC Benchmarking

I'm headed down there tomorrow. Can you guys meet at the Visitor Center parking lot at 10:45 tomorrow morning to get the boards?

Larry

From: Hasan, Munawar (IntlAssoc) <munawar.hasan@nist.gov>
Date: Thursday, September 16, 2021 at 11:44 AM
To: Bassham, Lawrence E. (Fed) <lawrence.bassham@nist.gov>, Kang, Jinkeon (IntlAssoc) <jinkeon.kang@nist.gov>
Subject: Re: LWC Benchmarking

Hi Larry,

I have Arduino Uno, Arduino Due, Arduino MKRZero and Arduino Nano 33 Ble.

Regards,
Munawar Hasan

From: Bassham, Lawrence E. (Fed) <lawrence.bassham@nist.gov>
Date: Thursday, September 16, 2021 at 11:40 AM
To: Kang, Jinkeon (IntlAssoc) <jinkeon.kang@nist.gov>
Cc: Hasan, Munawar (IntlAssoc) <munawar.hasan@nist.gov>
Subject: Re: LWC Benchmarking

I'll get you, Jinkeon, the 2 boards you need. We'll need to coordinate. Munawar, do you need any boards?

Larry

From: Kang, Jinkeon (IntlAssoc) <jinkeon.kang@nist.gov>
Date: Thursday, September 16, 2021 at 10:52 AM
To: Bassham, Lawrence E. (Fed) <lawrence.bassham@nist.gov>

Subject: Re: LWC Benchmarking

Hi, Larry,

Sorry that I couldn't update you. Munawar and I have worked on benchmarking and implementations. I will briefly share what we have done in today's meeting.

Thanks,
Jinkeon

From: Bassham, Lawrence E. (Fed) <lawrence.bassham@nist.gov>

Sent: Tuesday, September 14, 2021 4:25 PM

To: Kang, Jinkeon (IntlAssoc) <jinkeon.kang@nist.gov>; Hasan, Munawar (IntlAssoc) <munawar.hasan@nist.gov>

Subject: LWC Benchmarking

Jinkeon,

I have been successful getting 5 of the 6 platform/processors to work. How have you been doing on collecting implementations on GitLab? I just want to make sure we are working efficiently. I'm going to start running some tests. It looks like once I run a batch I upload to, for example, [benchmarks/sourcebase-2020.12.02/platform/chipkit_mx3](https://github.com/NIST-CSS/benchmarks/tree/master/sourcebase-2020.12.02/platform/chipkit_mx3). That data is then used to generate graphs/tables/etc.

Larry