OpenSHMEM 1.6

June 8th, 2020

Topics

1. Memory spaces/partitions and memory kinds (Naveen)
2. Improvements to memory model (Akhil)
3. Performance monitoring interfaces (Wasi)
4. Wait-then-set API (Nick)
5. Operation sessions/bundles (Jim)
6. Per PE fence/quiet (Manju)
7. Bundle
8. Add signal API (Jim)
9. Noncontiguous data transfer APIs
10. Teams: shmem_ptr, duplication, config
11. Update copyright and license (Jim)
12. Glossary (Steve/LANL)

OpenSHMEM Issues

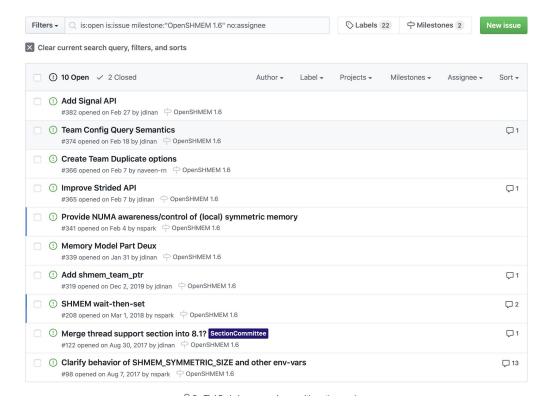## OpenSHMEM 1.6

📅 Due by December 31, 2020   **8%** complete

☐ ⊘ **32 Open**   ✓ 3 Closed

⋮⋮ ☐ ⑂ **Symmetric Memory Partitions (HBM, FAM, and other memory kinds)** `Work-In-Progress`
#256 opened on Nov 16, 2018 by naveen-rn

☐ ⊙ **Performance variable and APIs**
#295 opened on Sep 26, 2019 by wrrobin

☐ ⊙ **Blocking gets are unordered** `Feedback Requested`
#233 opened on Jul 25, 2018 by anshumang   💬 23

☐ ⊙ **Behavior of fence** `Feedback Requested`
#232 opened on Jul 24, 2018 by anshumang   💬 8

☐ ⊙ **SHMEM wait-then-set**   💬 2
#208 opened on Mar 1, 2018 by nspark

☐ ⊙ **Add support for different kinds of memory (HBM, FAM, and others)** `Feedback Requested`
`Work-In-Progress` `blocked`   💬 8
#195 opened on Dec 28, 2017 by naveen-rn

☐ ⊙ **Add shmem_team_ptr**   💬 1
#319 opened on Dec 2, 2019 by jdinan

OpenSHMEM PR Requests

			Author ▾	Label ▾	Projects ▾	Milestones ▾	Reviews ▾	Assignee ▾	Sort ▾

☐ ⑂ **4 Open**   ✓ 0 Closed

☐ ⑂ **Add a BSD license to the source code** ✓   💬 5
#417 opened on Apr 13 by RaymondMichael   ⌂ OpenSHMEM 1.6

☐ ⑂ **Per PE Quiet interface** ✓ `HadReading`   ⓘ 1   💬 3
#316 opened on Nov 24, 2019 by manjugv   ⌂ OpenSHMEM 1.6

☐ ⑂ **Per PE Fence interface** ✓   ⓘ 1   💬 1
#315 opened on Nov 24, 2019 by manjugv   ⌂ OpenSHMEM 1.6

☐ ⑂ **Symmetric Memory Partitions (HBM, FAM, and other memory kinds)** `Work-In-Progress`
#256 opened on Nov 16, 2018 by naveen-rn   ⌂ OpenSHMEM 1.6

OpenSHMEM 1.6 Issues (No Owner)

| Filters ▾ | 🔍 is:open is:issue milestone:"OpenSHMEM 1.6" no:assignee | 🏷 Labels 22 | 🚩 Milestones 2 | **New issue** |

☒ Clear current search query, filters, and sorts

| ☐ | ⊙ **10 Open** ✓ 2 Closed | | | | Author ▾ | Label ▾ | Projects ▾ | Milestones ▾ | Assignee ▾ | Sort ▾ |

☐ ⊙ **Add Signal API**
#382 opened on Feb 27 by jdinan 🚩 OpenSHMEM 1.6

☐ ⊙ **Team Config Query Semantics**   💬 1
#374 opened on Feb 18 by jdinan 🚩 OpenSHMEM 1.6

☐ ⊙ **Create Team Duplicate options**
#366 opened on Feb 7 by naveen-rn 🚩 OpenSHMEM 1.6

☐ ⊙ **Improve Strided API**   💬 1
#365 opened on Feb 7 by jdinan 🚩 OpenSHMEM 1.6

☐ ⊙ **Provide NUMA awareness/control of (local) symmetric memory**
#341 opened on Feb 4 by nspark 🚩 OpenSHMEM 1.6

☐ ⊙ **Memory Model Part Deux**
#339 opened on Jan 31 by jdinan 🚩 OpenSHMEM 1.6

☐ ⊙ **Add shmem_team_ptr**   💬 1
#319 opened on Dec 2, 2019 by jdinan 🚩 OpenSHMEM 1.6

☐ ⊙ **SHMEM wait-then-set**   💬 2
#208 opened on Mar 1, 2018 by nspark 🚩 OpenSHMEM 1.6

☐ ⊙ **Merge thread support section into 8.1?** `SectionCommittee`   💬 1
#122 opened on Aug 30, 2017 by jdinan 🚩 OpenSHMEM 1.6

☐ ⊙ **Clarify behavior of SHMEM_SYMMETRIC_SIZE and other env-vars**   💬 13
#98 opened on Aug 7, 2017 by nspark 🚩 OpenSHMEM 1.6

OpenSHMEM Issues (No Milestone)

Filters ▾   🔍 is:open is:issue no:milestone   🏷 **Labels** `22`   🎯 **Milestones** `2`   **New issue**

❎ Clear current search query, filters, and sorts

☐	⚠ **17 Open** ✓ **41 Closed**	Author ▾ Label ▾ Projects ▾ Milestones ▾ Assignee ▾ Sort ▾

☐	⚠ **Remove start_pes section** #404 opened on Mar 23 by jamesaross	💬 6
☐	⚠ **Fix possessive acronyms in LaTeX** #370 opened on Feb 12 by nspark	
☐	⚠ **Interoperability: shmem_query_interoperability API** #308 opened on Oct 29, 2019 by minsii	
☐	⚠ **Checklist for proposing a change** #286 opened on Sep 24, 2019 by BryantLam 🗒 0 of 1	💬 1
☐	⚠ **Query symmetric heap size** #277 opened on May 22, 2019 by nspark	
☐	⚠ **Adding support for interoperability with Fortran Coarrays** #252 opened on Oct 1, 2018 by naveen-rn	🧑
☐	⚠ **Extending the basic Fortran bind(C) support** #251 opened on Oct 1, 2018 by naveen-rn	🧑
☐	⚠ **Adding Fortran bind(C) support for basic OpenSHMEM routines in a separate document** #249 opened on Oct 1, 2018 by naveen-rn	🧑
☐	⚠ **Move website to pages.github.com** #240 opened on Aug 16, 2018 by BryantLam	💬 2
☐	⚠ **Require optimized context option** #239 opened on Aug 9, 2018 by jdinan	💬 1
☐	⚠ **Local Completion Operation**	💬 1

Working Groups

- RMA Working Group
- Threads Working Group
- Teams Working Group
- Collective Working Group

Working Group Topics

- Threads Working Group - Memory Spaces, Interoperability
- RMA Working Group - Memory model, Performance Variables / Tools interface
- Meets Tuesday 3-4 PM ET
- Rename working groups ?
- New working groups ?
- Change times ?

OpenSHMEM Committee Meetings

- August 7th, 2020 (Telecon)
- October 9th, 2020 (Telecon)
- December 2nd, 2020 (Telecon)

Next Steps

- Issues / PRs with authors, milestones and assignees.
  - Don't have WG, choose one or form one (if needed)
  - Have WG, continue the discussion
- Issues with no Milestones
  - Authors assign one or close
- Issues with no assignees
  - Authors assign one or close
- Discussion to continue in the WG