Charm++ - Feature #1974

nocopy accelerated section multicast

09/06/2018 03:49 PM - Eric Bohm

Status: New
Priority: Normal
Assignee: Raghavendra Kanakagiri
Category: SMP
Target version: 6.9.1

Start date: 09/06/2018
Due date:
% Done: 0%
Estimated time: 0.00 hour
Spent time: 0.00 hour

Description
It should be possible to reduce the number of copies required to implement a section multicast.
Especially if the entry method is receiving const data (i.e., readonly data). Ideally there should be only one copy per address space with refcounting to resolve cleanup when delivery has been completed at all leaves within the address space.
The current implementation creates one per PE, even for [readonly], and doesn't use RDMA to minimize pack/unpack cost.

Related issues:
Related to Charm++ - Bug #1633: NodeGroup Broadcasts creates many copies of t...

History
#1 - 09/06/2018 03:49 PM - Eric Bohm
- Related to Bug #1633: NodeGroup Broadcasts creates many copies of the message for point to point sends added