# YAXT - Feature #311

# stripify xt\_xmap\_dist\_dir\_new

11/26/2012 04:24 PM - Joerg Behrens

Status:	Closed	Start date:	11/26/2012
Priority:	Normal	Due date:	
Assignee:	Thomas Jahns	% Done:	100%
Category:		Estimated time:	0:00 hour
Target version:			

### Description

Following the idea of using bounding boxes for xmap constructions we could consider to implement a stripe-set form of all involved ingredients.

This avoids vectorization to death of big compact index lists (better scalability). This is suitable for a one-dim distributed directory which might not scale perfectly but probably is more cost effective for medium sized problems.

## History

#### #1 - 05/23/2014 05:28 PM - Thomas Jahns

- Assignee set to Thomas Jahns
- % Done changed from 0 to 30

I have the base of this (a striped version of xt\_xmap\_intersection\_new) in the making right now. But some method to decide which to use from either xt\_xmap\_all2all\_new or xt\_xmap\_dist\_dir\_new is still needed. In the case of xt\_xmap\_all2all\_new an additional logical reduction on whether any process has a big index list is probably not prohibitive. This might differ for xt\_xmap\_dist\_dir\_new.

## #2 - 07/30/2014 06:33 PM - Thomas Jahns

- % Done changed from 30 to 100

This is now completed in master commit:694a0623e385835878e9e4c81bf761041929b98f and should give much improved performance whenever data on a single task becomes large. The changes include a tuning parameter in enum CHEAP\_VECTOR\_SIZE (see source:"src/xt\_idxlist\_internal.h@694a0623e385835878e9e4c81bf761041929b98f#L113")

## #3 - 11/28/2016 11:05 AM - Thomas Jahns

- Status changed from New to Resolved

# #4 - 02/24/2022 12:19 PM - Thomas Jahns

- Status changed from Resolved to Closed