

proxy - like a pointer / reference

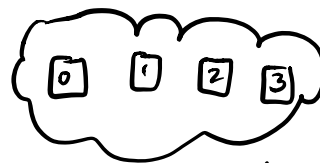
data may not be in your library
or processor

cham++ deals with transferring data

Singleton

an imaginary
computer w/ a set
of instructions

Array (of singletons)



many singletons indexed

1. Parallel components are software
"computing units"

not hardware ; can use diff hardware and
software will figure out how to distribute

2. more like texting, less like phone

Actions

task that you can ask
parallel components to do;

or elements of an array
parallel component

different type of actions.

For pi-dartboard

- throw darts + contribute to reduction
- take reduction results + get pi

Reduction

a type of talking to each other

1. @ end of action they state
their answer

2. add up all answer

a bunch of numbers \rightarrow one number

a lot of data \rightarrow aggregate
summary

can be an addition, multiplication...

Meta variables

input file-like options; used when compiling

ex. BBH sim: how many dimensions do you want?



Test_AlgorithmReduction.cpp

(good template for Pi dartboard

create

Test_PiDart.cpp

Test_PiDantl.cpp

- not doing it in parallel yet
- we need an output
- include `<random>` library
`<iostream>`
- throw-darts function
- anonymous namespace
will allow you to keep
your function exclusive
to the file
- print 'value' after the reduction

- each element should use
throw-darts func.

- my-send-int { array-index } ^{throw-darts}

- ".cpp" | c++filt

clean way to look at errors

- ocean 12 nodes = 240 processors
 (20 processors)

- make parallel components array
have 240 elements (1 element/processor)

parallel components are able
to communicate w/ each other

ocean 12 nodes (20 pr/node)
1 processor per node
is allocated for
communication

cout outputs only 6 sig fig
use `<iomanip>` to increase
numbers we can print out

symbolic link
(ln -s)

ctrl - (to go back)

put in cache - doesn't change

put in databox if maybe change