

What is a communication descriptor?

An opaque object that:

- Keeps track of the parallel machine (ctxt);
- Is associated with a discretization topology (mesh graph plus discretization stencil);
- Stores the mapping of the index space onto the parallel machine;
- Contains all the data necessary to implement a neighbour-to-neighbour data exchange (or: halo data exchange; or: ghost cell update; or: persistent neighborhood all-to-all on a virtual distributed graph topology)

```
^^I call psb_halo(x, desc)
^^I
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