NAME
> hwloc-patch – Apply a topology difference to an existing XML topology

SYNOPSIS
> **hwloc-patch** [*options*] *[<topology.xml> | refname] [<diff.xml> | -] <output.xml>*

> **hwloc-patch** [*options*] *[<topology.xml> | refname] [<diff.xml> | -]*

OPTIONS
> **−R −−reverse**
>> Reverse the sense the difference file.

> **−−version**   Report version and exit.

> **−h −−help**   Display help message and exit.

DESCRIPTION
> hwloc-patch loads the difference between two topologies from a XML file (or from the standard input) and applies it to an existing topology, generating a new, modified one.

> The XML difference may have been computed earlier with hwloc-diff or hwloc-compress-dir.

> If <output.xml> is given, the new, modified topology is stored in that new file. Otherwise, <topology.xml> is modified in place.

> If **refname** is given instead of <topology.xml>, the input topology filename is automatically guessed by reading the refname field of the XML diff file. By default hwloc-diff generates XML diffs with the right reference topology filename (without any path prefix).

> If **-** is given instead of <diff.xml>, the topology difference is read from the standard input.

> **NOTE:** If some application-specific userdata were been exported to the input XMLs, they will be ignored and discarded from the output because hwloc has no way to understand and patch them.

> **NOTE:** It is highly recommended that you read the hwloc(7) overview page before reading this man page. Most of the concepts described in hwloc(7) directly apply to the hwloc-patch utility.

EXAMPLES
> hwloc-patch's operation is best described through several examples.

> Apply a XML topology difference file to an existing topology:

>> $ hwloc-patch fourmi023.xml diff.xml fourmi023-new.xml

> Apply a XML topology difference file whole refname field contains the right input topology:

>> $ hwloc-patch refname diff.xml fourmi023-new.xml

> Apply a XML topology from the standard intput:

>> $ cat diff.xml | hwloc-patch fourmi023.xml - fourmi023-new.xml

> Directly compute the difference between two topologies and apply it to another one, in place:

>> $ hwloc-diff fourmi023.xml fourmi024.xml | hwloc-patch fourmi025.xml -

RETURN VALUE
> Upon successful execution, hwloc-patch outputs the modified topology. The return value is 0.

> hwloc-patch also returns nonzero if any kind of error occurs, such as (but not limited to) failure to parse the command line.

SEE ALSO
     hwloc(7), lstopo(1), hwloc-diff(1), hwloc-compress-dir(1)

     hwloc(7), lstopo(1), hwloc-diff(1), hwloc-compress-dir(1)