

ups - Bug #1923

Dependency changes for ART folks

09/26/2011 11:19 AM - Marc Mengel

Status:	Closed	Start date:	09/26/2011
Priority:	High	Due date:	
Assignee:	Marc Mengel	% Done:	80%
Category:		Estimated time:	0.00 hour
Target version:		Spent time:	10.25 hours
Experiment:		Co-Assignees:	
Description			
They want an option with two parts			
1. with this option set, rather than unsetup a currently setup package, we complain if it is setup and not the version we are going to setup			
2. with this option set, we conflicts in versions in dependencies are errors, not overridden by the higher-level package's version.			

History

#1 - 09/26/2011 11:30 AM - Marc Mengel

So the easy part is in upsact_trim_unsetup <source:/src/upsact.c#L755> which currently looks to see what's setup to figure out what to unsetup...

Need to browse the code some more to find the dependency pick-the-highest-one code...

#2 - 09/26/2011 12:55 PM - Marc Mengel

So currently, ups does its product setup matching using two lists in next_cmd() in <source:/src/upsact.c#L1333> using two variables: top_list (argument) and g_prod_done, where the former is a list of products listed at the top level of the setup (which always win) and the latter is a list of product names we've setup so far.

The problem is that the g_prod_done list only lists the names of the products that are setup so far; not their version, qualifiers etc. So it looks like we will need to change it to a list of ups_ugo structures which give the setup options of those products, and if a product is already setup, use that list to check for the mismatch. so then

```
g_prod_done = upslst_add( g_prod_done, p_act_itm->ugo->ugo_product );
```

becomes

```
g_prod_done = upslst_add( g_prod_done, p_act_itm->ugo );
```

and when we check the list for matching product names, in is_prod_done we use ((t-upsugo_command*)l_ptr->data)->ugo_product to look at the list...

We can test that change, and then try adding some code to check for clashes if the product is "already done".

#3 - 09/26/2011 01:13 PM - Marc Mengel

I'm looking at the list of options, it seems -B is available, which sort of fits for this, as in "Breakproof mode" (or possibly "Bondage and Discipline Dependency mode" :-))

One could specify it on a setup (or in UPS_OVERRIDE in the environment?)

#4 - 09/26/2011 01:25 PM - Christopher Green

I'm assuming UPS_OVERRIDE is the environment variable you mentioned Friday but weren't exactly sure of the name?

#5 - 09/26/2011 01:28 PM - Christopher Green

-B would be fine, but if ups is set up for it I'd be just as happy with a long option only, eg --strict-dependency-versions. Possibly happier, since it doesn't entail trying to come up with and remember a tortured backronym.

Thanks,
Chris.

#6 - 09/26/2011 02:26 PM - Marc Mengel

(Chris, ups doesn't currently support any --long options...)

Just checked in a revision that, if given -B on the command line, gives a (wrong) error if there is a version clash in the dependencies on ups depend.

Still need to

- [] test with setup as well as depend
- [] make a proper error message for this case
- [] add the unsetup/resetup behavior
- [] add UPS_OVERRIDE code for -B

#7 - 10/04/2011 01:18 PM - Marc Mengel

Okay so my last analysis of part one was hosey...

It looks like we can get the currently setup version, etc of product pname by calling:

```
t_upsugo_command *setup_ugo_cmd = 0;
...
setup_ugo_cmd = upsugo_env( pname, g_cmd_info[e_unsetup].valid_opts );
```

The unsetup checks that are there just look to see if **any** version of X is setup, and generates the unsetup for it, regardless if it matches.

What we want, is if a version of X is setup that doesn't match the version we have, we fail, and if the version we want **is** setup, we don't bother setting it up again. That means we need to pass in the version and qualifiers and check them; or just check the setup version as we go...

#8 - 10/04/2011 02:37 PM - Marc Mengel

I committed a version into cvs which now appears to do both the checks for:

- checking for conflicts between branches of the dependency tree
- checking for conflicts between what's setup already and the product being setup

Still need to

- put in support for setting this in UPS_OVERRIDE
- do we want it to fail the toplevel product being setup as well, if it conflicts with what is setup (i.e. they **have** to use unsetup first).

Still need to check carefully , and hopefully add some test cases..

#9 - 10/04/2011 02:45 PM - Marc Mengel

- % Done changed from 0 to 70

You can review the net change so far at in the [repository](#) to see the main code updates.

#10 - 10/05/2011 10:56 AM - Marc Mengel

- % Done changed from 70 to 80

#11 - 04/25/2017 04:41 PM - Marc Mengel

- Status changed from Assigned to Closed