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Migrating PLC point descriptions back to overall module representation



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Migrating PLC point descriptions back to overall module representation
July 16, 2006, 01:38 AM [Nate Holt](#)

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This one might appeal to 1% (or less) of the audience, but I'm posting it because it was a challenge and, more than that, it was flat-out fun to do. Here's the deal... user wants to insert a bunch of single I/O points throughout the design and, when finished, insert a full version of the module on some master drawing. No problem so far. User then wants to have some kind of cross-reference data on this master drawing (next to the module) to show where all the individual I/O point symbols are located throughout the drawing set. Again, no problem (can use the "Cross-reference table" under the "Components" > "Cross-Reference" pull-down menu or use the PLC I/O Address/Descriptions report and insert as a table).

BUT, here's the rub. The user wants the 3-5 lines of description text assigned on the individual I/O points inserted throughout the drawing set to back-annotate to this overall module. Each single I/O point's description attributes need to find the right module and the right I/O point on that module. That's where we run into trouble.

Example of what is desired is shown here.

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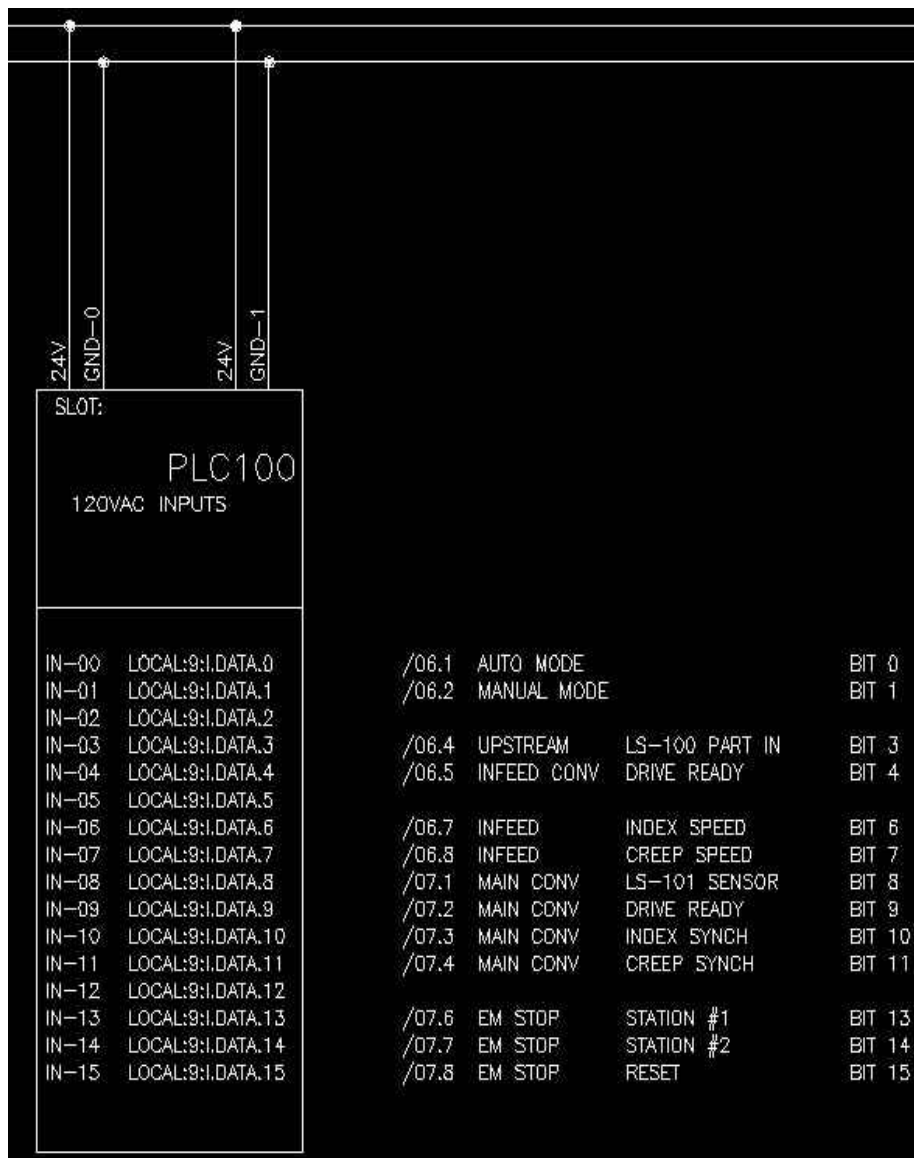
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Solution: Make the overall module just a simple, stripped down version of an AutoCAD Electrical PLC I/O module. It is inserted into the drawing (example stripped-down PLC I/O symbol with necessary attributes [here](#)) using the normal Insert Component command (ex: enter the block's name in the "Type it" edit box). Enter the starting address for the module.

So far, so good. But the description text for each I/O point starts out blank. We need to suck these all in from the individual I/O points inserted throughout the drawing set (just the ones that point back at this particular module via TAG-id and I/O address values).

So, how do we get this data (shown on the right) pulled in and matched up with the module tag and I/O addresses? Write a little AutoLisp utility, that's how. Example utility can be downloaded [here](#). It prompts the user to pick a module to update. It then queries the project's "scratch database" file, finds all the related single I/O points, and pulls the descriptions and cross-ref locations over to the main module.

APpload it and then try it (type PLC_DESC_CROSSREF at the command line and pick on the overall module). It seems to work. Don't be afraid to modify the utility to suit your specific needs. It can be fun...!

UPDATE: a reader suggested an improvement... blank out the old cross-reference text before writing the new text back out. This made good sense and a revised version of the utility is in place.

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COMMENTS



January 4, 2007 09:41 AM [Robert Janes](#)

Nate, Do you have an example of a child module? And do you think that this could be used in conjunction with a parametric plc module that spanned several pages? Thanks, Dean

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