ABB AB
Robotics

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What's New ArcWelding PowerPac 5.13

New features

Optimize Targets' Orientation

Targets' orientation can be modified easier with the new "Optimize Targets Orientation" function in PathView. It contains several different options to optimize your target angles, such as spinning target angles towards robot base for easy reachability, minimizing robot axes movements for smooth weld path, and interpolating target orientations in world, work object or RCS coordinate, etc. Please check the operator manual for details.

Simulation Log

Simulation in PathView can be logged and replayed. The log contains motion positions of robots, external axes, station and virtual controller events (including collision events, if respective collision sets are created in RobotStudio). After a simulation, you can play with the log, stop at any time, view motion information, check collision and etc. It is a great tool for you to scrutinize the details of any simulation.

You can turn on and off this function easily by checking or unchecking the "Simulation Log" option in the PathView toolbar.

Save as Simulaton Viewer File

Now each simulation run in PathView can be saved as a RobotStudio Viewer file.

You can turn on and off this function easily by checking or unchecking the "Save as Viewer" option in the PathView toolbar.

Updated Process Template and Instruction Description for Arc Instructions

The instruction arguments of instruction ArcL, ArcC, ArcCStart, ArcCEnd, ArcLStart and ArcLEnd have been modified in latest RoboWare version, with more optional arguments to specify triggdata (T1~T7). Accordingly, AWPP is updated with these changes, otherwise there will be problems when updating these motion instructions from VC back to station.

To make old station work with new AWPP:

1. Import the latest move instruction descriptions:
   a) Right click on task node in AWPP browser
   b) Select "Import Move Instructions…"
   c) Go to "MyDocument \RobotStudio\ProcessPac\MoveInstructionDescriptions\Arc",
   d) Select "ArcL*", "ArcC*" instructions and import;

2. Export the process templates in the station and save;
3. Import the process templates again into the station:
   a) Right click on process template node in AWPP browser
   b) Select "Import Process Templates…"
   c) Go to "MyDocument \ RobotStudio\ProcessPac\ProcessTemplates\Arc",
   d) Select "ArcDefault" template and import;
   e) If you have any customized templates that have referenced "ProcessDefinitions_Arc", then also import them again.