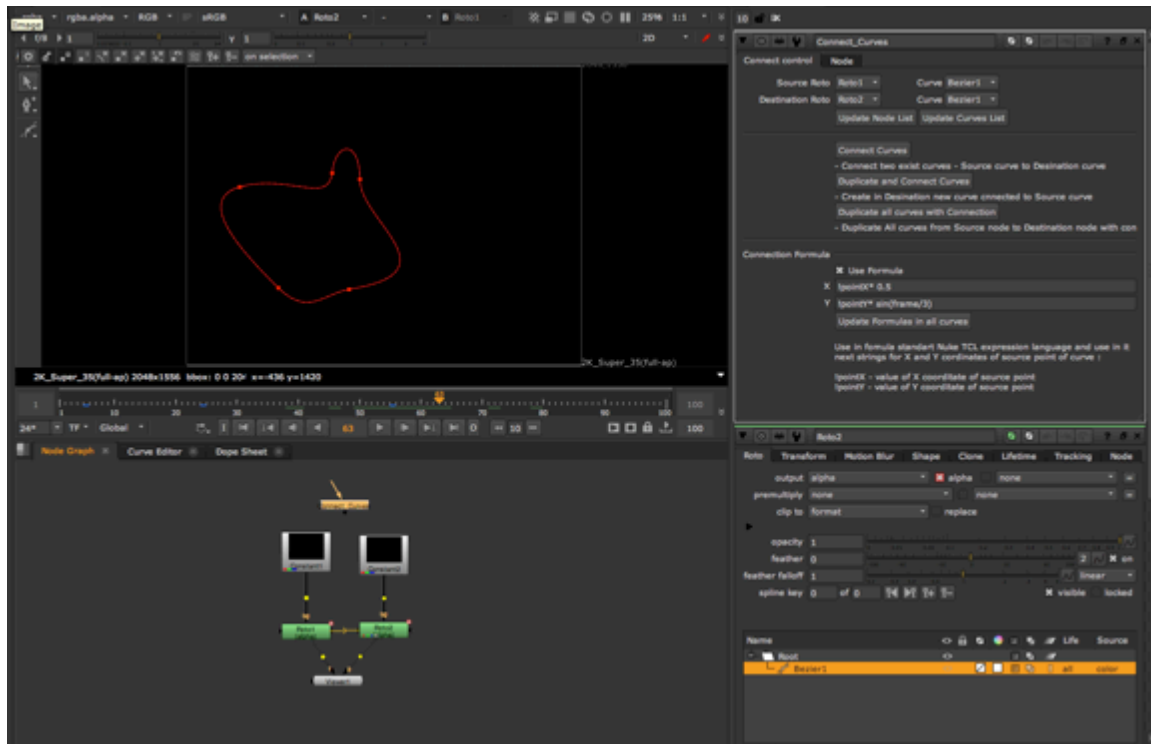


Overview

Connect_Curves is a custom tool inside Nuke, that help seamless connect several Bezier splines in one Roto node with same number splines in another node. Splines connected by TCL expressions for each points. To make this manually - it need to set up 12 expression per each point. Tool can connect any number of curves. In addition user can make not only direct connection point to point. But support connection with formula. FFormula is automatically applied to each point of the curve. Formula entered directly in node, not required Python knowledge. It used usual TCL expressions syntaxes

Usage

Connect_Curves tool is usable when it is necessary to simultaneously apply expression points of the curve and to be able to animate it with a keys



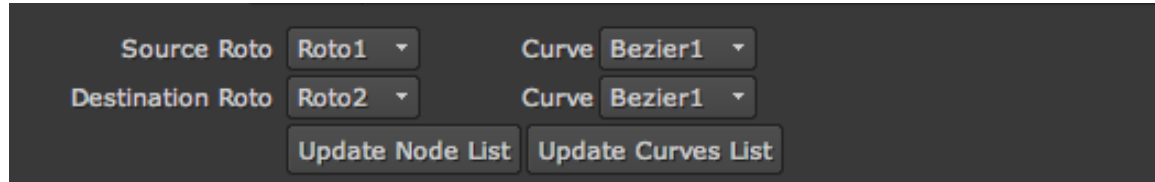
This version is first prototype of this tool. Current version have next limitation and condition of its correct working:

- Current version of tool support Bezier curves only
- Current version not support feather points
- In current version tool is a single node, not gizmo

Connect_Curves Tool Controls

Source and destination setup

Select correct source and destination Roto node, and then curve. Use «Update Node List» and «Update Curves List» buttons before select



The screenshot shows a dark-themed control panel with the following elements:

- Source Roto**: A dropdown menu currently showing **Roto1**.
- Curve**: A dropdown menu currently showing **Bezier1**.
- Destination Roto**: A dropdown menu currently showing **Roto2**.
- Curve**: A dropdown menu currently showing **Bezier1**.
- Update Node List**: A button located below the Roto dropdowns.
- Update Curves List**: A button located below the Curve dropdowns.

Button "Connect Curves":

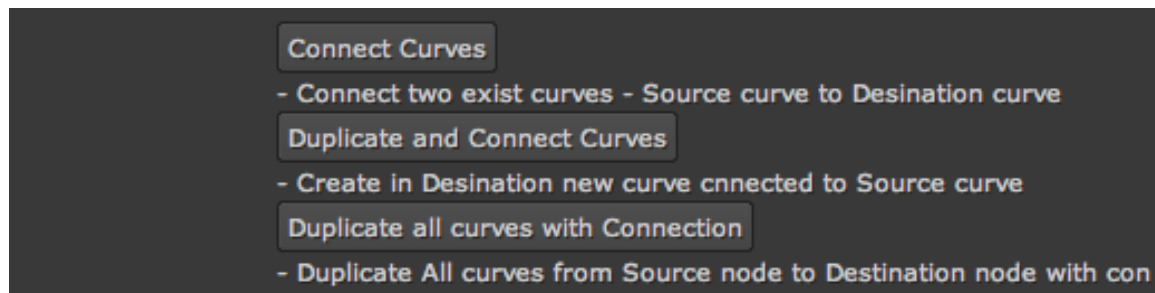
Connect two exist curves with same number of points. It required to setup Rotos and Curves as source and destination

Button "Duplicate and Connect Curves":

Duplicate one selected source curve in source Roto node to the destination Roto node. Destination Curve parameter is not used

Button " Duplicate all curves with Connection":

Duplicate all curves in source Roto node to the destination Roto node. Destination Curve parameter is not used



The screenshot shows a dark-themed control panel with the following elements:

- Connect Curves**: A button.
- Connect two exist curves - Source curve to Desination curve**: A text label.
- Duplicate and Connect Curves**: A button.
- Create in Desination new curve cnnected to Source curve**: A text label.
- Duplicate all curves with Connection**: A button.
- Duplicate All curves from Source node to Destination node with con**: A text label.

Connection Formula area:

Use formula – check on if you want to use formula. Parameter used only in moment when button pressed

X,Y – put TCL formula here for X and Y coordinates of points

Update Formulas in all curves – press this button if you change "**Use formula**" checker of change formula