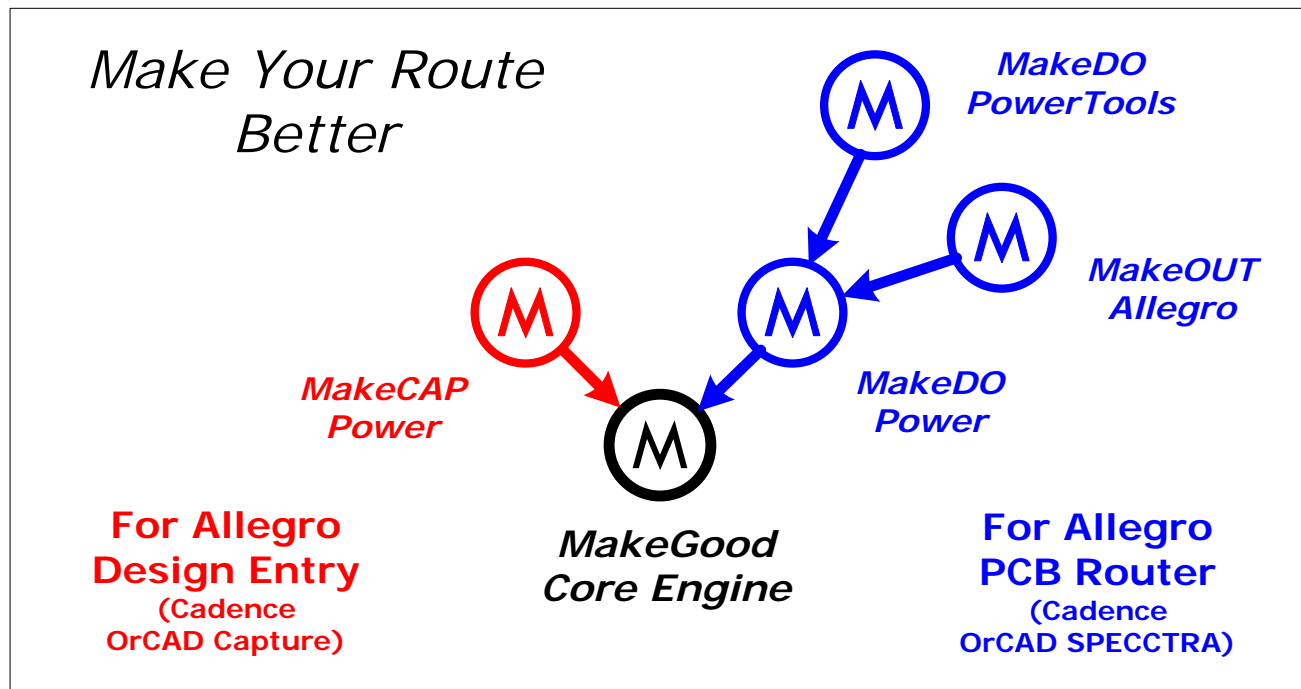


## Powered by the MakeGood AllegroCentric Constraints Engine



*Add the Routing Tools You Need - to the MakeGood Engine*

### **MakeGood Core Engine**

AllegroCentric Constraints Central Processing Engine. Powers the MakeGood Product Family.

### **MakeCAP Power**

Property Editor for Allegro Design Entry (Capture) schematic. Drives the Allegro Constraint Manager Hi-speed Flow. Cross-probe to schematic, ECO Property Compare.

### **MakeDO Power**

Hierarchical GUI to drive the Allegro PCB Router (SPECCTRA). Topology AutoAssist, Series Path Wizard, perfect DO File creation.

### **MakeDO PowerTools**

Ultimate Hi-speed routing management. Path length Manager, Virtual Pin Wizard, full board graphical ReViewer.

### **MakeOUT Allegro**

Drive Router DO File constraints & topologies to Allegro PCB Editor & Constraint Manager.

## MakeDO Power

MakeDO Hierarchical GUI  
ADV Rules  
DFM Rules  
HP Hi-Speed Rules  
Editor  
Drive SPECCTRA CommandLine  
SyntaxChecker  
SyntaxChecker Nets, Pins, Objects  
Write SyntaxCheck Error Reports  
MakeSmart Constraint Capture  
Read SPECCTRA DSN  
Read OrCAD CCT File  
CAD Data List Display  
Column Selection  
Create WYSIWYG DO File  
SPECCTRARules Synchronized  
Titled DO Commands  
TODO System  
Project Manager  
Graphical Draw Fence, Regions  
& Keepouts  
Read Capture Schematic DSN  
CAD DataMining Reports  
Wildcard Search  
Define Class from List  
Apply Rules to Multiple Classes,  
Apply Rules to MultipleGroups  
Apply Rules to Selected  
Spreadsheet view (READ-ONLY)  
Multiple DO Windows  
Rules Report  
Navigator Automatic DO Setup  
Route Catalog DO Design Re-Use  
X-Net Series Path Wizard  
Capture Schematic Cross-probe  
Create Soft FromTOs  
RevUP (RefDes WAS-IS & PinSwap)  
OrderNets AutoAssist  
OrderFromTOs AutoAssist  
Diffpairs AutoAssist

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**MakeCAP  
Power**

Star Pattern FromTOs  
Differential Wires  
Define Virtual Pins  
Assign Pins Process  
Via Reduction  
Import/Export Values to CSV  
ReWrite Commands from Database  
Spreadsheet Properties (Editable)  
AutoPilot Custom DO Setup  
Forget All DSN Rule DO  
Insert DO File  
DO Outliner Code Folding  
AutoCodeCompletion  
AutoCodeHints  
AutoSymbolCompletion  
AutoWordCompletion  
Color KeyWord Highlighting  
AutoBraceMatch  
BookMark  
ZoomInOut  
Literal String Highlighting

## MakeDO PowerTools

Graphical Topology Schedule  
Display SPECCTRA Conflicts  
VPin Path Wizard  
Acute Angle Viewer  
Shortest Daisy Path  
Path Lengths Pre- & Post-Route  
Class Match Length Wizard  
GroupSet Match Length Wizard  
GroupSet Match Length Report  
Net Match Length Wizard  
Net Match Length Report  
Net Manhattan Length Report  
Net Review Report  
Net Max Via Count Violations  
Net Max Length Violations  
Group Max Total Length Wizard  
Group Routed Length Wizard  
Group Manhattan Length Report  
FromTO Max Length Wizard  
FromTo Routed Length Report  
FromTo Manhattan Length Report  
Pin\_length Delay  
Board Graphical ReViewer  
Hi-lite CAD Objects  
Query Component/Net/Pin/Via  
Find/GoTo Component and Net  
Define and display Classes  
Measure lengths and spacing  
Measure Manhattan

SPECCTRA-type controls  
Pan & Zoom  
Display & Highlight Guides  
View by Layer & Object  
Schedule FromTO Topology  
Create and move Virtual Pins  
View Net Properties  
Add Net Properties while Viewing  
Define, View Objects to MakeDO  
Define FromTOs Graphically  
Define Classes Graphically

## MakeOUT Allegro

Generate NetIN TEL file  
Generate Constraint Manager DCF  
Generate Wiring CSV File  
Generate Propagation Delays CSV  
Generate Total Etch Length CSV  
Generate Relative Prop Delays CSV  
Generate Diff Pairs CSV  
Verify Net Scheduling  
Convert FromTO to Allegro  
SCHEDULE  
Convert Class to Allegro BUS  
Convert Group to Allegro  
Match\_Group  
Export PCB & Class Rules to Nets  
Define Topology  
Define T-points

## MakeCAP Power

Spreadsheet-Database linked GUI  
Apply Properties Multiple Nets  
Apply Properties to Multiple Parts  
Constraint Manager-like Views  
Define Diffpairs  
Graphical Diffpair Properties  
Define PinPairs  
Define Groups  
Define Buses  
Exploded hierarchical views  
Netlist View  
Partlist View  
Wildcard data search  
Default Property Filters  
Custom Filters by Property  
Store Custom Property Filters  
Filter by Net or Part  
Cross-probe from MakeCAP  
to schematic  
ECO Property Compare

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