

ProModel/Process Simulator Capabilities Compared

	Process Simulator	ProModel
	Use Process Simulator, a Microsoft Visio© plug-in, to build dynamic visual models in Visio.	Use ProModel to create dynamic, animated computer models from CAD files, process or value stream maps, or Process Simulator models.
Functionality / Module	Process Simulator	ProModel
Arrays	Yes, 2 dimensional, import from Excel, Export to Excel	Yes, n-dimensional, import (Excel & DB), runtime, export, limited only by memory
Arrival Cycles	Using Periodic type arrival	Yes, define arrivals according to cyclicity
Arrivals	Yes, multi-method	Yes, multi-method
Attributes	Yes, entities	Yes, entities, locations
Automated Optimization	N/A	Yes
Calendar/Shifts & Breaks	Yes	Yes, including logic capability
Cranes	N/A	Yes, multi-bridge
Entities	Yes	Yes, multiple graphics per entity
External Files	External arrival file	Yes, read, write, special purpose, runtime interaction, pre-and post-run interaction
General Information and Model Notes	Yes	Yes, dynamically accessible
Graphics importing	Full Visio Functionality	Yes, .emf, .wmf, .jpg, .gif, .png, .bmp, .pcx directly, others possible
Hierarchical Modeling Construct	Yes	Model Collaborator or model merging
Location / Activity	Activities: Yes, downtimes, shifts, setups, auto buffering in and out,	Locations: Yes, additional downtimes with logic, shifts, setups (extended), attributes, runtime status, multiple levels of priorities, entry and exit rules, location units, etc.
Logic Tool	Yes, see Comparison of Statements and Functions table	Yes, see Comparison of Statements and Functions table
Macros	Yes, numeric and distribution	Yes, direct, indirect, text, code, numeric, Run time interface, automated manipulation during optimization
Path Networks	N/A	Yes, controllable
Resources	Static (shifts, downtimes), Resource groups	Static, Dynamic (shifts, downtimes, path logic, work and park searches, etc.)
Simulation Environment	Trace, debug, user pause	Trace (filtered), debug advanced, user pause, array info, variable info, location data, etc.
Six Sigma Analysis with Minitab	Yes	Yes
Stat::Fit	Yes	Yes
Streams	Yes	Yes
Subroutines	Yes, standard	Yes, standard, activated, interactive, and external
Table Functions	N/A	Yes
Tanks	N/A	Yes, plus specialized subroutines included
User Definable Processing	Yes	Yes, many routing rules
User Distribution	Yes, discrete	Yes, continuous and discrete
Variables	Yes	Yes

ProModel
Better Decisions—Faster

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Statement & Functions

Process Simulator	Shared			ProModel	
Break Loop	Accum	FreeCap()	Return	Close	Reset
IncCost	Activate	FreeUnits()	Round()	Combine	Resource()
IncOnOrderQty	Animate	Get	Send	Create	ResourceUnit()
	ArrayDims()	GetCost()	SetRate	Down	Route
	ArrayDimSize()	GetReplicationNum()	Sqrt()	DTDelay()	Split As
	Assignments	GetResRate()	Stop	DTLeft() DynPlot()	ThreadNum() TimeLeft()
	Break	GroupQty()	TimesUsed()	ForLocation() Format()	Ungroup
	BreakBlk	If...Then...Else	Trace	ForResource()	Unload
	CalDay()	Inc	Trunc()	Graphic	View
	CalDOM()	Int	Units()	Group	Write
	CalHour()	Jointly Get	Use	IncEntCost IncLocCost	WriteLine
	CalMin()	Loc()	Variable()	IncResCost	Xsub()
	CalMonth()	LocState()	Wait	Join	Xwrite
	CalYear()	Location()	Wait Until	Last()	
	Cap()	Log	Warmup	Load	
	Char()	Match	While Do	MapArr	
	Clock()	ObjectID()		Move	
	Comments	Order		Move For	
	Contents()	OwnedResource()		Move On	
	Debug	Pause		Move With	
	Dec	PercentOp()		Next()	
	Display	PercentUtil() Prompt		Preemptor()	
	Do Until	Rand()		Priority	
	Do While	Real		Read	
	DownQty()	Real()		Rename	
	Ent()	Res()		Report	
	Entity()	Reset Stats			
	Entries()	ResQty()			
	Free				