

## NAME

srvn2eepic, srvn2fig, srvn2out, srvn2ps, srvn2pstex, srvn2srvn, srvn2x11, srvn2xml

## SYNOPSIS

**srvn2eepic** [ (+|-)CRVZabijlpqrstuvw ] [ **-A** *activities* ] [ **-D** *file/directory* ] [ **-F** *font-size* ] [ **-I** *regex* ] [ **-J** *object=justification* ] [ **-L** *layering* ] [ **-M** *magnification* ] [ **-N** *precision* ] [ **-O** *output-format* ] [ **-P** *processors* ] [ **-Q** *queueing-model* ] [ **-S** *submodel* ] [ **-T** *regex* ] [ **-X** *x-spacing* ] [ **-Y** *y-spacing* ] [ **-d** *file/directory* ] [ **-h** *help* ] [ **-o** *filename* ] [ *filename ...* ]

## DESCRIPTION

**srvn2eepic**, **srvn2fig** and **srvn2ps** are used to transform an SRVN input file into EEPIC macros, Fig input and PostScript respectively. EEPIC output is suitable for processing with LaTeX. Fig output is used as input to xfig(1) and transfig(1). If a parseable output file is available, the transformed output will include results.

**srvn2srvn** is used to transform an SRVN input file into another SRVN input file. The **-I** and **-S** options can be used to generate new input models consisting only of the object selected. Refer to “*SRVN Input File Format*” for a complete description of the input file format for the programs.

**srvn2out** is used to transform a parseable output file into an output file. The options described below can be used to select subsets of the output.

**srvn2xml** is used to transform an SRVN input file into an XML input file. If a parseable output file is available, the XML file will include results.

**srvn2eepic** reads its input from *filename*, specified at the command line if present, or from the standard input otherwise. Output for an input file *filename* specified on the command line will be placed in the file *filename.tex* (*.fig* for **srvn2fig**, *.ps* for **srvn2ps**, *.in2* for **srvn2srvn**, *.out* for **srvn2out** and *.xml* for **srvn2xml**). If several files are named, then each is treated as a separate model and output will be placed in separate output files. If input is from the standard input, output will be directed to the standard output. The file name ‘-’ is used to specify standard input.

## OPTIONS

### **-A** *activities*

The **-A** *activities* option is to aggregate activities.

**none** Don’t aggregate activities.

### **sequences**

Aggregate sequences of activities into a single activity.

**all** Aggregate activities called by an entry into the entry.

A new model that results from aggregation may not necessarily have the same solution as the original model. An aggregated model is smaller, so it will solve faster.

(The default is none).

**-C** Colour output. (The default is on).

### **-D** *file/directory*

The **-D** *file/directory* option is used to compare the results from two different solutions of the same input file. The output will be the percentage error of the *<file/directory>* when compared to the result file specified using **-d** *directory* or the default result file.

### **-F** *font-size*

Set the font size (from 6 to 36 points). (The default is 9).

### **-I** *regex*

The **-I** *regex* option is used to include only those objects that match *regex* and those objects who call the matching objects in the output.

### **-J** *object=justification*

The **-J** *object=justification* option is used to set the justification for **nodes**, **labels**, or **activities**. *Justification* is one of **left**, **center**, or **right**. The default is center justification for all objects.

**-L layering**

The **-L layering** option is used to choose the layering strategy for output.

**batch** Batch layering (default for lqns(1))

**hws** Hardware-Software layering (all of the processors are on their own layer).

(The default is batch).

**-M magnification**

Magnification. (The default is 1).

**-N precision**

Precision. (The default is 5).

**-O output-format**

Override the output format determined by the way *srvn2eepic* was invoked.

**eepic** Generate eepic macros for LaTeX.

**fig** Generate input for xfig(1).

**pstex** Generate PostScript and LaTeX (pstex).

**ps** Generate Encapsulated Postscript.

**x11** Not implemented.

**srvn** Generate a new input file. Results are ignored.

**out** Generate a new output file.

**xml** Generate an XML input file..

**-P processors**

Specify which processors are displayed.

**none** Don't display any processors..

**default** Only display those processors that might have contention.

**all** Show all processors.

(The default is default). This option has no effect for SRVN input and output file generation.

**-Q queueing-model**

The **-Q queueing-model** option is used to generate a diagram of the underlying queueing model for the submodel number given as an argument. This option has no effect for SRVN input and output file generation.

**-R** Rename all objects. (The default is off).

**-S submodel**

The **-S submodel** option is used to generate a diagram of the submodel number given as an argument. This option has no effect for SRVN input and output file generation.

**-T regexp**

The **-T regexp** option is used to include only those tasks that match *regexp*.

**-V** Verbose output. (The default is off).

**-X x-spacing**

X spacing (points). (The default is 10).

**-Y y-spacing**

Y spacing (points). (The default is 54).

**-Z** Print layer number. (The default is off).

**-a** Print queue length for open arrivals. (The default is on).

- b**      Print task throughput bounds. (The default is off).
- d** *file/directory*  
The **-d** *file/directory* option is used to specify the directory where the results for the input file are found.
- help**   Print out usage information.
- i**      Print input parameters. (The default is on).
- j**      Print join delays. (The default is on).
- l**      Print message loss probabilities. (The default is on).
- o** *filename*  
The **-o** *filename* option is used to direct all output to the file *output* regardless of the source of input. Multiple input files cannot be specified when using this option except with **srvn2eepic**. Output can be directed to standard output by using **-o-** (i.e., the output file name is '-').
- p**      Print processor utilization. (The default is on).
- q**      Print processor waiting times. (The default is on).
- r**      Print results. (The default is on).
- s**      Print execution time. (The default is on).
- t**      Print task throughput. (The default is on).
- u**      Print task utilization. (The default is on).
- v**      Print execution time variance. (The default is off).
- w**      Print waiting time. (The default is on).

**SEE ALSO**