

Specware® 4.2 Quick Reference

Shell Commands

<code>help [command]</code>	Print help for shell commands
<code>cd [folder-name]</code>	Change or print current folder
<code>dir dirr</code>	List .sw files in folder (current or recursively)
<code>path [path; ...; path]</code>	Set or print SWPATH environment variable
<code>p[roc] [unit]</code>	Process unit(s)
<code>cinit</code>	Clear unit cache
<code>show showx [unit]</code>	Process and print unit (normal or extended form)
<code>oblig[ations] [unit]</code>	Print the proof obligations of the unit
<code>punits lpunits [unit [target-file]]</code>	Generate proof-units for unit (global or local)
<code>ctext [spec]</code>	Sets context for evaluation
<code>e[val] eval-lisp [expression]</code>	Evaluate and print expression (directly or in Lisp)
<code>gen-lisp lgen-lisp [spec [target-file]]</code>	Generate Lisp from spec (global or local)
<code>gen-java [spec [options-spec]]</code>	Generate Java from spec
<code>gen-c [spec [target-file]]</code>	Generate C from spec
<code>make [spec]</code>	Generate C with makefile and call “make” on it
<code>ld cf cl [lisp-file]</code>	Load, compile, or load+compile Lisp file
<code>exit quit</code>	Terminate shell

Units (specs, morphisms, diagrams, ...)

<code>[[/]name/.../name][#name]</code>	Unit-identifier
<code>unit-id = unit-term</code>	Unit-definition
<code>spec declaration ... endspec</code>	Returns spec-form
<code>qualifier qualifying spec</code>	Qualifies unqualified type- and op-names
<code>translate spec by {[type op] name +-> name, ...}</code>	Spec-translation: replaces lhs names in spec by rhs names
<code>spec [morphism]</code>	Spec-substitution: replaces source spec of morphism by target spec in the given spec
<code>colimit diagram</code>	Returns spec at apex of colimit cocone
<code>obligations spec-or-morphism</code>	Returns spec containing proof obligations
<code>morphism spec -> spec {[type op] name +-> name, ...}</code>	Returns spec-morphism
<code>diagram {diagram-node-or-edge, ...}</code>	Returns diagram
<code>name +-> spec</code>	Diagram-node
<code>name : name -> name +-> morphism</code>	Diagram-edge
<code>generate [c java lisp] spec [in "filename" with options-spec]</code>	Generates C, Java, or Lisp code
<code>prove claim in spec [with snark] [using {claim, ...}] [options prover-options]</code>	Proof-term

Names

<code>[qualifier.] name</code>	Type-name, op-name
<code>word-symbol</code>	Qualifier
<code>word-symbol non-word-symbol</code>	Name, constructor, field-name, (type-)var
<code>A3 posNat? z-k</code>	Examples of word-symbols
<code>`~! @\$^ &*~ +=\ :< >/?</code>	Examples of non-word-symbols

Literals

<code>true false</code>	Boolean-literal
<code>0 1 ...</code>	Nat-literal
<code>#char-glyph #"</code>	Char-literal
<code>" char-glyph... "</code>	String-literal
<code>A ... Z a ... z 0 ... 9 ! : # ... \\ \\" \a \b \t \n \v \f \r \s \x00 ... \xff</code>	Char-glyph

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