Emacs HOL mode commands

All of these commands are executed by first typing the HOL prefix (Meta-h, or Esc-h) and then the appropriate letter.

h "hol98" Starts the HOL session.

C-c "hol-interrupt" Interrupts the HOL session. Useful for those tactics that don't always return.

C-l "hol-recentre" Recentres the screen that HOL is running in, so that the most text is visible with the bottom of the text at the bottom of the screen.

C-v "hol-scroll-up" Scrolls the HOL window.

C-t "hol-toggle-show-types" Toggles the value of the show_types variable, affecting how terms are printed.

M-b "backward-hol-tactic" Moves the cursor back over the previous tactic in the source text in the current buffer. With a *prefix argument*, moves back that many tactics.

M-f "forward-hol-tactic" Moves the cursor forward over the next tactic in the source text in the current buffer. With a *prefix argument*, moves that many.

M-r "send-region" Sends the *region* to the HOL process, where it is evaluated at the top level. Can be used both to define new ML bindings, and to evaluate epxressions.

M-v "hol-scroll-down" Scrolls the HOL window.

b "hol-backup" Backs up one stage in the goalstack.

d r "hol-drop-goal" Drops the current goal, removing it from the goal-stack entirely.

e "expand-hol-tactic" Sends the region to the HOL process as a tactic, where it is applied to the current goal.

g "hol-goal" Sets the current goal. Sends the term at point (delimited on both sides by back-quotes) to the HOL process. With a *prefix argument*, or if in transient mark mode with an active region, sends the selected region as the goal instead.

l "hol-load-file" Loads a HOL library. If there is a region marked, uses that string as the library to load. Otherwise, if the cursor (point) is over a likely name, it uses that for the library to load. As a last resort (or in all situations, if there is a *prefix argument*), prompts for the name of the library.

n "hol-name-top-theorem" Prompts for a name to give to the "top theorem" (i.e., the theorem just proved in the goalstack). With a *prefix argument* also drops the goal.

p "hol-print" Prints the top goal in the goalstack.

r "hol-rotate" Rotates goals in the goalstack. With a numeric *prefix argument* rotates that many out of the way, instead of just one.

R "hol-restart" Restarts the current proof.

s "send-string-to-hol" Prompts for a string to be evaluated by SML, like "M-r".

t "mark-hol-tactic" Marks the tactic at point, putting mark at the start of the tactic, and point at the end. Useful as a prelude to applying the tactic with "expand-hol-tactic".

u "hol-use-file" Prompts for a file-name to be *use*-d at the top level.