

Flowchart Operations

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| <ul style="list-style-type: none"> • Create a flowchart | <p>Place the cursor in a function; click the flowchart icon in the toolbar or use flowchart menu</p> |
| <ul style="list-style-type: none"> • | <p>Try clicking the <Code Only>, <Flow Only>, <Code + Flow> tabs at the bottom</p> |
| <ul style="list-style-type: none"> • | <p>Click in the right half of a flowchart symbol: it highlights the symbol (in detailed and condensed view both) also highlights the corresponding source code ----- While the corresponding code is highlighted, click the scroll icons in the flowchart toolbar</p> |
| <ul style="list-style-type: none"> • Type-information of objects in a flowchart symbol | <p>Click in the left half of a flowchart symbol You will see the type-information of variables and the code covered by that symbol</p> |
| <ul style="list-style-type: none"> • Flowchart Toolbar | <p>Roll the mouse pointer over toolbar buttons to gain familiarity</p> |
| <ul style="list-style-type: none"> • Level-n flowcharts | <p>Click L1, L2, ..., L* buttons. Right-click anywhere in Flowchart Window, then click<Detail Level></p> |
| <ul style="list-style-type: none"> • High-level symbols | <p>A high-level symbol is indicated by a thick purple border.</p> |
| <ul style="list-style-type: none"> • Expand / Collapse: | <p>Double-click in the right-half of high-level symbol to expand it by two-levels Or <i>right-click</i> in a high-level symbol to expand it by any desired number of levels: The <Expand Symbol> operates on symbols. The <Expand All> operates on the whole flowchart.</p> |
| <ul style="list-style-type: none"> • Flowchart of for-loop, switch, while-loop, etc. | <p>Click in the right-half of a for-symbol, if-symbol, switch-symbol or a symbol that is nested in such constructs, then click the 5th icon in the Flowchart toolbar. Use the <Switch to Parent Flowchart> and <Switch to if, loop flowchart> to go back and forth between the flowcharts.</p> |

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| <ul style="list-style-type: none"> • Highlight Connections | <p>Click on a connection to highlight it.</p> <p>Click at the input of a symbol. All paths that can reach the input become highlighted.</p> <p>Click at the output of a symbol. In case of a high-level symbol, it highlights all output branches of that symbol.</p> <p>For additive highlighting, press <Ctrl> while clicking as described above.</p> |
| <ul style="list-style-type: none"> • Go to flowchart of a function that is called in a flowchart symbol | <p>Right-click in symbol that contains a function-call, then click <Create Flowchart for function call></p> <p>Use the "left-right button" at the bottom of the toolbar to go back and forth between the caller-flowchart and called-flowchart.</p> |
| <ul style="list-style-type: none"> • Customizable Shapes for system calls | |

Crystal Flow/REVS identify three kinds of comments:

1. Title comments - a block of comments that appears immediately before a function
2. Leading comments - these appear within a function.
A leading comment describes one or more statements that are immediately below it.
3. Associated comment - it appears to the right of a statement and is thus associated with that statement

Three types of Flowcharts: Code Flowcharts, Comment Flowcharts, and Code + Comment Flowcharts

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| <ul style="list-style-type: none"> • Code Flowcharts | <p>The flowchart symbols contain actual code.</p> <p>Click <Switch to Code Flowchart> icon in Flowchart Toolbar or Use the Flowchart pull-down menu</p> |
| <ul style="list-style-type: none"> • Comment Flowcharts | <p>If a comment is present to the right of a statement, such a comment is called the associated-comment.</p> <p>Whenever available, the comment flowchart displays the associated comment instead of the actual statement.</p> <p>Click <Switch to Comment Flowchart> icon in Flowchart Toolbar or Use the Flowchart pull-down menu</p> |

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| <ul style="list-style-type: none"> • Code + Comment Flowcharts | <p>The flowchart displays the associated-comment plus the actual code.</p> <p>Click <Switch to Code Comment Flowchart> icon in Flowchart Toolbar</p> <p>or Use the Flowchart pull-down menu</p> |
| <ul style="list-style-type: none"> • Flowchart size | <p>With the "zoom-out" button in the flowchart toolbar, reduce the size of the printed flowchart or exported flowchart.</p> <p>Zoom-in will increase the size.</p> <p>Tip: Click "Zoom Default" icon for on-screen viewing and zoom-out to control the print size or export size.</p> |
| <ul style="list-style-type: none"> • Export Flowcharts .jpg, .bmp, html | <p>Click in the flowchart window to make it active.</p> <p>Use the Flowchart pull-down menu.</p> <p>Export the whole function or selected part of the function.</p> <p>(To select, hold the Shift key down and click and drag in the condensed view of the flowchart in the Browse Window)</p> <p>Zoom-out so that the flowchart fits in one .bmp or .jpg page and you can insert in desired documentation.</p> <p>For large flowcharts, the exported bitmap is in multiple .bmp or .jpg files. In such a case, you may prefer to export it as HTML so that you can view all bitmap files together as one.</p> <p>Printing a flowchart is best accomplished by printing directly from Crystal FLOW or REVS.</p> |
| <ul style="list-style-type: none"> • Export Flowchart to Visio | <p>Right-click in the flowchart window</p> <p>or Click in the flowchart window to make it active and use the Flowchart pull-down menu</p> <p>Use the "zoom-out" and "zoom-in" buttons in the toolbar to control the size of the exported flowchart.</p> <p>or use the "Scale" setting in the Visio Export menubox.</p> |
| <ul style="list-style-type: none"> • Print-preview | <p>Right-click in the flowchart window.</p> <p>Click "Tile" button to view multiple pages or a single page.</p> |