

AQue Height User Guide

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Purpose

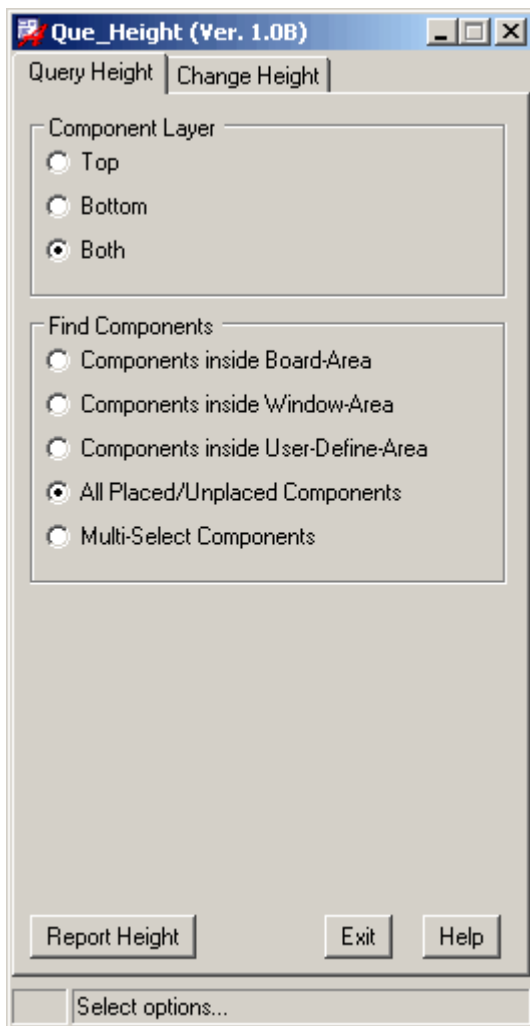
Finds and displays minimum and maximum symbol height values. Also allows them to be edited.

Description

Finding height critical components can be time consuming and laborious. A misplaced device can cause components to interference with adjacent mechanicals or other boards. By visually reporting all targeted device heights in one place, along with placement information and room information, the chances are that design interference occurring will be greatly reduced.

Benefits

Saves time. Find, organize and place your height critical components quickly, without neglect.



Menu Functions: Query Tab

Component Layer → Select the layer to be viewed. Top, Bottom or Both.

Find Components → Selects which components are to be viewed.

Board Area → Reports on all components inside the board perimeter.

Window Area → Reports on all components inside the currently displayed visible window.

User Defined Area → Reports on all components inside a user defined two point pick.

All Components → Reports on all components placed and un-placed, anywhere in the design.

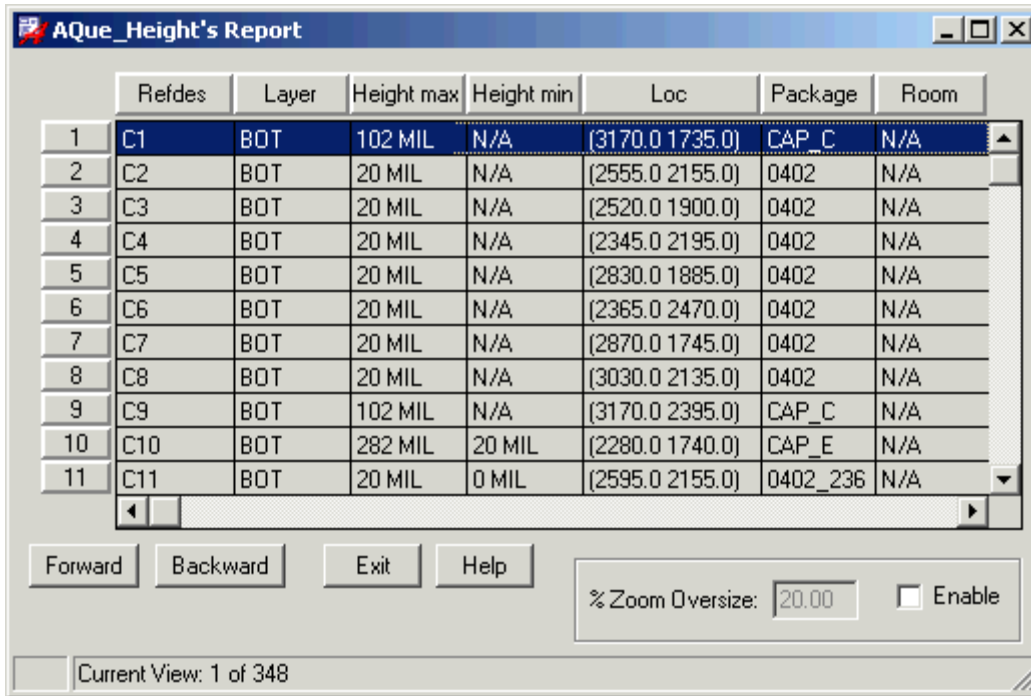
Multi-Select Components → Reports on one or multiple components, by user interactive pick.

View Height Report → When clicked, Reports height values on the targeted components.

Running the Program: Query Tab

- 1) Select component layer, or layers to be reported.
- 2) Select the location of the components
- 3) Click the “**View Height Report**” button to view the height report.

Height Report Viewer



The screenshot shows a window titled "AQue_Height's Report" with a table of 11 rows. The columns are: Refdes, Layer, Height max, Height min, Loc, Package, and Room. Below the table are buttons for "Forward", "Backward", "Exit", and "Help". At the bottom right, there is a "% Zoom Oversize" control with a text box containing "20.00" and an "Enable" checkbox. The status bar at the bottom left shows "Current View: 1 of 348".

	Refdes	Layer	Height max	Height min	Loc	Package	Room
1	C1	BOT	102 MIL	N/A	(3170.0 1735.0)	CAP_C	N/A
2	C2	BOT	20 MIL	N/A	(2555.0 2155.0)	0402	N/A
3	C3	BOT	20 MIL	N/A	(2520.0 1900.0)	0402	N/A
4	C4	BOT	20 MIL	N/A	(2345.0 2195.0)	0402	N/A
5	C5	BOT	20 MIL	N/A	(2830.0 1885.0)	0402	N/A
6	C6	BOT	20 MIL	N/A	(2365.0 2470.0)	0402	N/A
7	C7	BOT	20 MIL	N/A	(2870.0 1745.0)	0402	N/A
8	C8	BOT	20 MIL	N/A	(3030.0 2135.0)	0402	N/A
9	C9	BOT	102 MIL	N/A	(3170.0 2395.0)	CAP_C	N/A
10	C10	BOT	282 MIL	20 MIL	(2280.0 1740.0)	CAP_E	N/A
11	C11	BOT	20 MIL	0 MIL	(2595.0 2155.0)	0402_236	N/A

Navigate to individual location simply by clicking on any line.

The “**Forward**” and “**Back**” buttons allow easy sequential navigation of the objects.

The “**% Zoom Oversize**” allows you to customize the size of window view based on the object size.

Right click on any of the column headings to **re-sort** the data.

Column Data Types

RefDes → Component Reference Designator

Layer → Current layer where the component is placed.

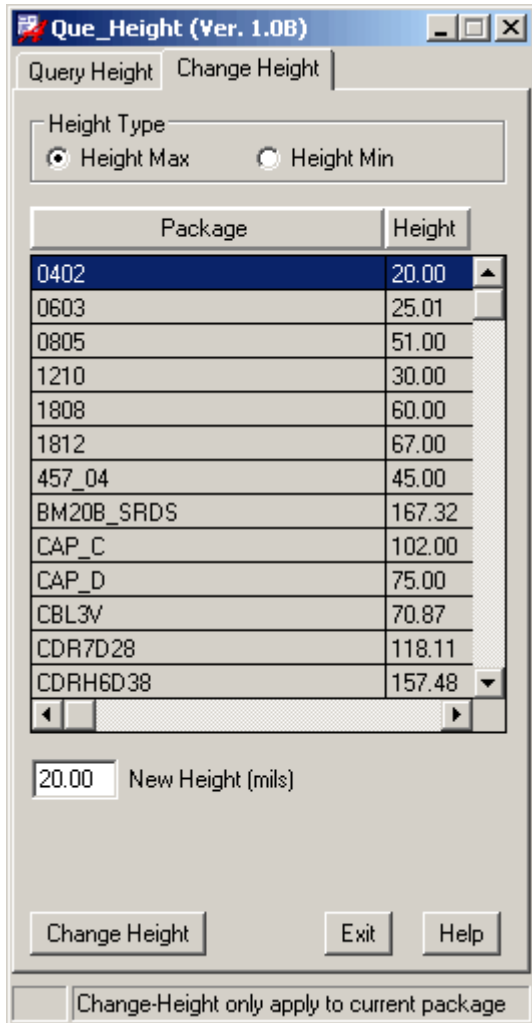
Height Max → Maximum height value for the component.

Height Min → Minimum height value for the component.

Loc → The location co-ordinates of the component.

Package → The package name for the component

Room → The placement room where the component belongs.



Menu Functions: Change Tab

Height Type → Selects either Height Maximum or Height Minimum to be displayed in the widow

Display Window → Shows and selects the available packages with the current height values in the design.

New Height → Enter the new height value to be assigned to the selected component.

Change Height → When clicked, applies the new height value to the selected package in the menu window.

Running the Program: Change Tab

- 1) Select the height type to be changed.
- 2) Select the target component package.
- 3) Enter the new height value
- 4) Click the “Change Height” button.

Note 1: Height value changes will only be applied if all symbols have been placed.

Note 2: Height value changes will only apply to symbols inside the design file.

External symbol libraries and symbols exported from the design file will not be affected.

For more information, please contact CopperCAD at (905) 488-8958 or www.CopperCAD.com

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