

Genome Coverage Element

Calculates genome coverage using bedtools genomecov.

Element type: genomecov

Parameters

| Parameter | Description | Default value | Parameter in Workflow File | Type |
|------------------|--|---------------|----------------------------|---------|
| Output directory | Select an output directory. Custom - specify the output directory in the 'Custom directory' parameter. Workflow - internal workflow directory. Input file - the directory of the input file. | Input file | out-mode | numeric |
| Custom directory | Specify the output directory. | | custom-dir | string |
| Output file name | A name of an output file. If default of empty value is provided the output name is the name of the first file with additional extention. | | out-name | string |
| Genome | In order to prevent the extension of intervals beyond chromosome boundaries, bedtools slop requires a genome file defining the length of each chromosome or contig (-g). | human. hg18 | genome | string |
| Report mode | Histogram () - Compute a histogram of coverage. Per-base (0-based) (-dz) - Compute the depth of feature coverage for each base on each chromosome (0-based). Per-base (1-based) (-d) - Compute the depth of feature coverage for each base on each chromosome (1-based) BEDGRAPH (-bg) - Produces genome-wide coverage output in BEDGRAPH format. BEDGRAPH (including uncovered) (-bga) - Produces genome-wide coverage output in BEDGRAPH format (including uncovered). | Histogram | mode-id | numeric |
| Split | Treat âsplitâ BAM or BED12 entries as distinct BED intervals when computing coverage. For BAM files, this uses the CIGAR âNâ and âDâ operations to infer the blocks for computing coverage. For BED12 files, this uses the BlockCount, BlockStarts, and BlockEnds fields (i.e., columns 10,11,12) (-split). | False | split-id | boolean |
| Strand | Calculate coverage of intervals from a specific strand. With BED files, requires at least 6 columns (strand is column 6) (-strand). | False | strand-id | boolean |
| 5 prime | Calculate coverage of 5â positions (instead of entire interval) (-5). | False | prime5-id | boolean |
| 3 prime | Calculate coverage of 3â positions (instead of entire interval) (-3). | False | prime3-id | boolean |
| Max | Combine all positions with a depth >= max into a single bin in the histogram (-max). | 21474836 47 | max-id | numeric |
| Scale | Scale the coverage by a constant factor.Each coverage value is multiplied by this factor before being reported. Useful for normalizing coverage by, e.g., reads per million (RPM). Default is 1.0; i.e., unscaled (-scale). | 1.00000 | scale-id | numeric |
| Trackline | Adds a UCSC/Genome-Browser track line definition in the first line of the output (-trackline). | False | trackline-id | boolean |
| Trackopts | Writes additional track line definition parameters in the first line (-trackopts). | | trackopts-id | string |

Input/Output Ports

The element has 1 *input port*.

Name in GUI: Input File

Name in Workflow File: in-file

Slots:

| Slot In GUI | Slot in Workflow File | Type |
|-------------|-----------------------|--------|
| Source URL | url | string |

And 1 *output port*.

Name in GUI: Output File

Name in Workflow File: out-file

Slots:

| Slot In GUI | Slot in Workflow File | Type |
|-------------|-----------------------|---------------|
| Source URL | url | <i>string</i> |