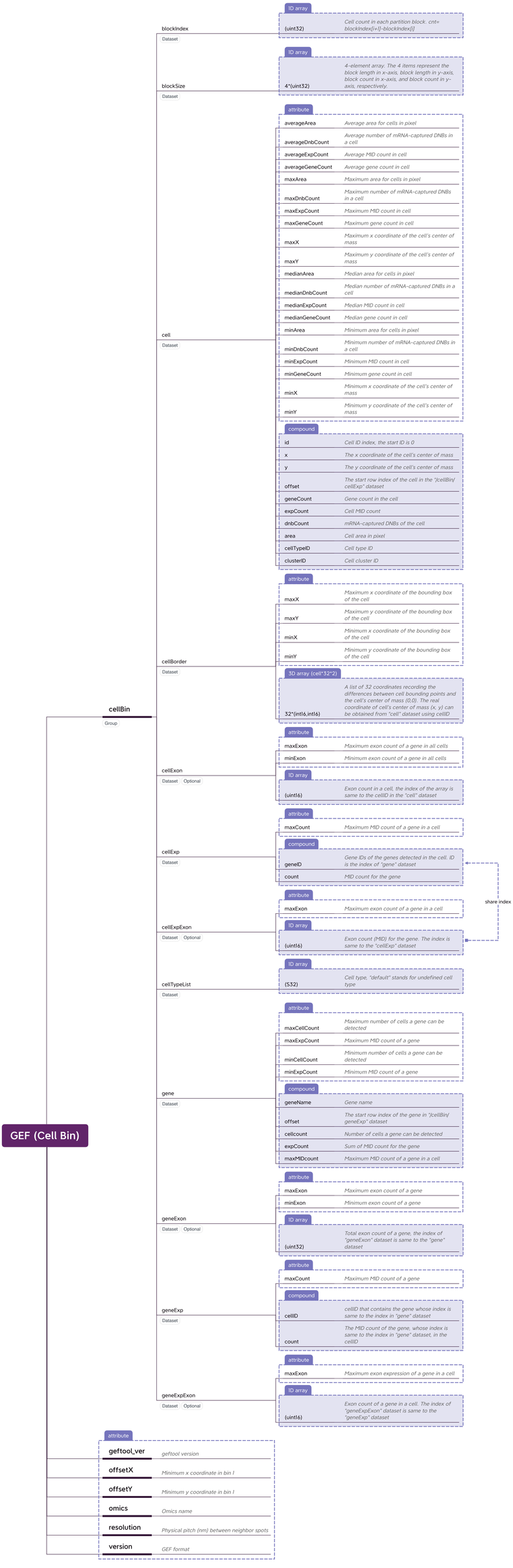
GEF (Cell Bin)
attribute
geftool_ver
geftool version
offsetX
Minimum x coordinate in bin 1
offsetY
Minimum y coordinate in bin 1
omics
Omics name
resolution
Physical pitch (nm) between neighbor spots
version
GEF format
cellBin
Group
blockIndex
Dataset
ID array
(uint32)
Cell count in each partition block. cnt= blockIndex[i+1]-blockIndex[i]
blockSize
Dataset
ID array
4*(uint32)
4-element array. The 4 items represent the block length in x-axis, block length in y-axis, block count in x-axis, and block count in y-axis, respectively.
cell
Dataset
attribute
averageArea
Average area for cells in pixel
averageDnbCount
Average number of mRNA-captured DNBs in a cell
averageExpCount
Average MID count in cell
averageGeneCount
Average gene count in cell
maxArea
Maximum area for cells in pixel
maxDnbCount
Maximum number of mRNA-captured DNBs in a cell
maxExpCount
Maximum MID count in cell
maxGeneCount
Maximum gene count in cell
maxX
Maximum x coordinate of the cell's center of mass
maxY
Maximum y coordinate of the cell's center of mass
medianArea
Median area for cells in pixel
medianDnbCount
Median number of mRNA-captured DNBs in a cell
medianExpCount
Median MID count in cell
medianGeneCount
Median gene count in cell
minArea
Minimum area for cells in pixel
minDnbCount
Minimum number of mRNA-captured DNBs in a cell
minExpCount
Minimum MID count in cell
minGeneCount
Minimum gene count in cell
minX
Minimum x coordinate of the cell's center of mass
minY
Minimum y coordinate of the cell's center of mass
compound
id
Cell ID index, the start ID is 0
x
The x coordinate of the cell's center of mass
y
The y coordinate of the cell's center of mass
offset
The start row index of the cell in the "/cellBin/cellExp" dataset
geneCount
Gene count in the cell
expCount
Cell MID count
dnbCount
mRNA-captured DNBs of the cell
area
Cell area in pixel
cellTypeID
Cell type ID
clusterID
Cell cluster ID
cellBorder
Dataset
attribute
maxX
Maximum x coordinate of the bounding box of the cell
maxY
Maximum y coordinate of the bounding box of the cell
minX
Minimum x coordinate of the bounding box of the cell
minY
Minimum y coordinate of the bounding box of the cell
3D array (cell,*,32,2)
32*(int16,int16)
A list of 32 coordinates recording the differences between cell bounding points and the cell's center of mass (0,0). The real coordinate of cell's center of mass (x, y) can be obtained from "cell" dataset using cellID
cellExon
Dataset Optional
attribute
maxExon
Maximum exon count of a gene in all cells
minExon
Minimum exon count of a gene in all cells
ID array
(uint16)
Exon count in a cell, the index of the array is same to the cellID in the "cell" dataset
cellExp
Dataset
attribute
maxCount
Maximum MID count of a gene in a cell
compound
geneID
Gene IDs of the genes detected in the cell. ID is the index of "gene" dataset
count
MID count for the gene
cellExpExon
Dataset Optional
attribute
maxExon
Maximum exon count of a gene in a cell
ID array
(uint16)
Exon count (MID) for the gene. The index is same to the "cellExp" dataset
share index
cellTypeList
Dataset
ID array
(S32)
Cell type, "default" stands for undefined cell type
gene
Dataset
attribute
maxCellCount
Maximum number of cells a gene can be detected
maxExpCount
Maximum MID count of a gene
minCellCount
Minimum number of cells a gene can be detected
minExpCount
Minimum MID count of a gene
compound
geneName
Gene name
offset
The start row index of the gene in "/cellBin/geneExp" dataset
cellcount
Number of cells a gene can be detected
expCount
Sum of MID count for the gene
maxMIDcount
Maximum MID count of a gene in a cell
geneExon
Dataset Optional
attribute
maxExon
Maximum exon count of a gene
minExon
Minimum exon count of a gene
ID array
(uint32)
Total exon count of a gene, the index of "geneExon" dataset is same to the "gene" dataset
geneExp
Dataset
attribute
maxCount
Maximum MID count of a gene
compound
cellID
cellID that contains the gene whose index is same to the index in "gene" dataset
count
The MID count of the gene, whose index is same to the index in "gene" dataset, in the cellID
geneExpExon
Dataset Optional
attribute
maxExon
Maximum exon expression of a gene in a cell
ID array
(uint16)
Exon count of a gene in a cell. The index of "geneExpExon" dataset is same to the "geneExp" dataset