Documentation

class NanopolishOutputData.**NanopolishOutputData**(*path*)

Interface to nanopolish output data. Takes a path to protobuf serialized nanopolish output data and offers methods for data retrieval.

get_event_align(*position*, *read_index=0*)

Raises a KeyError if (position, read_index) does not exist in data. The default value for Read_index is 0 for convenience. E.g. if someone is working with only one reference contig read.

position: int Position in reference read.

read_index: int Index of the contig, because the reference can consist of multiple contigs.

event_align: object

get_events(*position*, *read_index=0*)

get_line(*line_number*)

Method works in O(logn) where n is number of event_aligns. If you want to iterate through lines in linear time, don't use this method.

line_number: int

(event_align, event): A tuple consisting of an event_align object (which generally has more events) and a specific event on given line. The returned event can be also found as an element of event_align.events.

get_line_cnt()

Returns the number of lines in the original nanopolish text output.

get_model(*position*, *read_index=0*)

position: int Position in reference read.

read_index: int Index of the contig, because the reference can consist of multiple contigs.

(model_kmer, model_mean, model_stdv)

get_reference_kmer(*position*, *read_index=0*)

class NanopolishOutputParser.**NanopolishOutputParser**(*path*)

Nanopolish txt output parser, produces protobuf serialization if the 'serialize' method is called.

serialize(*path*)

Writes the protobuf serialization string into the given file. Data is sorted by pairs (read_index, position).

path: string Path to the file where serialized string of data should be written.