binary graph file format: Little-endian byte order

shortcut	type	byte
UI	unsigned int	4
F	float	4
D	double	8

	graph
UI	number of nodes
	V ·node

node		
D	longitude	
D	latitude	
UI	elevation	
UI	\deg	
$deg(node) \cdot outEdge$		

	outEdge		
UI	$\mathrm{targetID}$		
UI	length in m		
F	weight multiplier		
UI	shortcutted nodeID (defaults to $2^{32} - 1$) = A		
UI	shortcutted outEdge index of source = B		
UI	shortcutted outEdge index of shortcutted node = C		

traveltime metric: traveltime = length $\cdot \frac{1.3}{\text{weight}}$ If A is not $2^{32}-1$ the current edge is a CH edge - it combines the B'th out Edge of the current source and the C'th out Edge of node A.

name file:

name file	
UI	number of nodes
	V ·node rank

There are nodes with rank $2^{32} - 1$ - CH property is target_rank>=source_rank.