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Surfer 6 Binary Grid File Format

Surfer 6 grid files .GRD use a layout similar to the [Surfer 6 Text grid format](#). The only difference is in the identification string and that **Surfer 6** grid files are binary. Data types used in **Surfer 6** grid files include:

Type	Description
char	single byte
short	16 bit signed integer
float	32 bit single precision floating point value
double	64 bit double precision floating point value

The **Surfer 6** format has the following layout:

Element	Type	Description
id	char	4 byte identification string 'DSBB' which identifies the file as aSurfer6binary grid file.
nx	short	number of grid lines along the X axis (columns)
ny	short	number of grid lines along the Y axis (rows)
xlo	double	minimum X value of the grid
xhi	double	maximum X value of the grid
ylo	double	minimum Y value of the grid
yhi	double	maximum Y value of the grid
zlo	double	minimum Z value of the grid. NoData nodes are not included in the minimum.

zhi	double	maximum Z value of the grid. NoData nodes are not included in the maximum. Note that if all nodes are assigned NoData, the zlo=zhi= 1.71041e38.
z11, z12, ...	float	first row of the grid. Each row has a constant Y coordinate. The first row corresponds to ylo, and the last row corresponds to yhi. Within each row, the Z values are ordered from xlo to xhi. NoData values appear as 1.71041e38.
z21, z22, ...	float	second row of the grid
z31, z32, ...	float	third row of the grid
...	float	all other rows of the grid up to yhi

See Also

[File Format Chart](#)

[Grid Files](#)

[Surfer 6 Grid Export Automation](#)

[Surfer 6 Grid Export Dialog](#)

[Surfer 6 Text Grid Format](#)

[Surfer 7 Grid Files](#)