

ESRI ArcGIS Binary Grid (AIG) Reader

FORMAT NOTES:

This format is not supported by FME Base Edition.

The ESRI ArcGIS® Binary Grid (ArcGrid) Reader module provides the Feature Manipulation Engine (FME) with access to data in the ArcGrid format. This is the internally used binary format for ESRI's ArcGIS product.

Overview

The first element of the raster corresponds to the lower left-hand corner of the raster. For each raster, there is only a single feature returned, since this feature will contain the entire raster.

ArcGIS Binary Grid Quick Facts

Format Type Identifier	ARCVIEWGRID
Reader/Writer	Reader
Licensing Level	Professional
Dependencies	None
Dataset Type	Directory
Feature Type	ARCVIEWGRID or <source_dataset_filename>
Typical File Extensions	.adf
Automated Translation Support	Yes
User-Defined Attributes	Through TAB files
Coordinate System Support	Through TAB files
Generic Color Support	No
Spatial Index	Never
Schema Required	No
Transaction Support	No
Geometry Type	arcviewgrid_type

Geometry Support			
Geometry	Supported?	Geometry	Supported?
aggregate	no	point	no
circles	no	polygon	no
circular arc	no	raster	yes
donut polygon	no	solid	no
elliptical arc	no	surface	no
ellipses	no	text	no

Geometry Support			
Geometry	Supported?	Geometry	Supported?
line	no	z values	no
none	no		

Band Interpretations	UInt8, Int16, UInt16, Int32, UInt32, Real32, Real64
Palette Key Interpretations	not applicable
Palette Value Interpretations	not applicable
Interleave Type	not applicable
Nodata Value	Any value within the data type range
Cell Origin	0.5
Multi-Band	No
Multi-Palette	No
World File Support	No
TAB File Support	Yes

Reader Overview

The FME considers a directory containing an ArcGIS Binary Grid data to be a dataset. The source dataset directory may contain several *.adf files that together contain information to form one FME raster containing elevation data. Each elevation sample in the dataset is a point in a single FME raster feature.

Reader Directives

The suffixes shown are prefixed by the current <ReaderKeyword> in a mapping file. By default, the <ReaderKeyword> for the ArcGIS Binary Grid reader is ARCVIEWGRID.

DATASET

Required/Optional: *Required*

The value for this directive is the name of a single ArcGIS Binary Grid file. The normal extension for ArcGIS Binary Grid files is .flt.

Example:

```
ARCVIEWGRID_DATASET "C:\DATA\ARCVIEWGRID\portland_data"
```

Workbench Parameter: [<WorkbenchParameter>](#)

GROUP_BY_DATASET

Required/Optional: *Required*

The value for this directive is either Yes or No. When the value is set to No, the only feature type this reader will use is the reader type name, which in this case is ARCVIEWGRID. When the value is set to Yes, the feature type of each dataset is the file-

name (without the path or the extension) of the dataset. The default value for this directive is No.

An example of the GROUP_BY_DATASET keyword in use is:

```
GROUP_BY_DATASET "Yes"
```

[Workbench Parameter: <WorkbenchParameter>](#)

FME Raster Features

FME raster features represent raster data and use several concepts that are unlike those used in the handling of vector data. See *About FME Rasters* on page 13.

Feature Representation

In addition to the generic FME feature attributes that FME Workbench adds to all features (see *About Feature Attributes* on page 7), this format adds the format-specific attributes described in this section.

ArcGIS Binary Grid features specify a matrix of x, y, and z coordinates. For each raster, there will only be a single feature returned.

