

# Common Configuration Options in Standard MineSight® Scripts

Standard Python™ scripts are issued with every MineSight release. In the last issue, March 2009, we addressed different types of scripts. With the help of a few examples, this article will highlight how to configure our standard scripts to better accommodate a variety of user options.

MineSight utilizes the Python scripting language. There are some options within these scripts that can be used to modify the way the scripts report. The uncompiled versions of the scripts (the scripts suffixed `.py`) can be edited in any text editor and can be customized by modifying the **Configuration Options** at the top of the script file. For example, MineSight Interactive Planner (MSIP) uses scripts to report reserve information from the MineSight Planning Database (MSPD) (Figure 1).

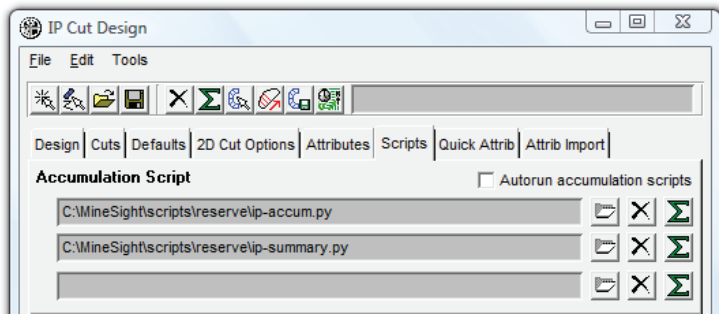


Figure 1. The **Scripts** tab of the IP Cut Design dialogue.

One commonly requested modification is to switch the reporting units between tonnes and kilotonnes. This switch is located in the **Configuration Options** section at the beginning of the scripts (Figure 2). Take caution when editing scripts. The only options that should be edited are the values within the **Configuration Options** section of any script. It is also highly recommended to backup the original version of any script that is to be edited.

```

53 # == START CONFIGURATION OPTIONS ==
54
55 # Reporting Units. Setting this 1000 causes the final reported values to
56 # be divided by 1000 prior to displaying. Keeping this set to 1 causes
57 # the values to be reported in the base units.
58 REPORTING_UNITS = 1
  
```

Figure 2. Configuration option to change the **Reporting Units** within `ip-accum.py` script.

In the first case, the script is reporting tonnages in the base units of tonnes (Table 1). In the second case, the script is reporting tonnage in kilotonnes.

## Case 1

```
58 REPORTING_UNITS = 1
```

	A	B
1	Material:	South Bed
2	Cutoff	0.00-0.20
3	Tonnes	570241
4	Volume (BC	228096
5	CUIDW	0.00

## Case 2

```
58 REPORTING_UNITS = 1000
```

	A	B
1	Material:	South Bed
2	Cutoff	0.00-0.20
3	Tonnes	570
4	Volume (BC	228
5	CUIDW	0.00

Table 1. Reporting tonnage and volume with different units.

In some instances, the number of decimal places for values in an IP report needs to be changed. There is an option in `ip-accum.py` to specify exactly how many decimal places will appear for the grade items.

```

83 # Indicate number of decimal places desired for all grade values in report.
84 # (Note: does not include ox/met/ore/waste accum types) 2 should be default
85 #
86 GRADE_DEC = 2
  
```

Figure 3. Decimal places option for grade items in `ip-accum.py`.

In the first case, the default of two decimal places is used (Table 2). In the second case, the number of decimal places to be reported has been increased to four.

Case 1

86 GRADE\_DEC = 2

19	Material:	Ore
20	Tons:	4916292
21	Volume:	1966517
22	CUIDW	0.57
23	MOIDW	0.06

Case 2

86 GRADE\_DEC = 4

19	Material:	Ore
20	Tons:	4916292
21	Volume:	1966517
22	CUIDW	0.5676
23	MOIDW	0.0565

Table 2. Reporting grade Items with a specific number of decimal places.

There is also an option in `ip-accum.py`, `ip-summary.py`, `ip-period.py`, `ip-report.py`, and `ip-label.py` to order the grade items (Figure 4) alphabetically.

Ore Items						
Type	Grade item	Accum	Grade item	Accum	Grade item	Accum
SG	CUIDW	<input type="checkbox"/>	MOIDW	<input type="checkbox"/>	EQCU	<input type="checkbox"/>

Figure 4. Order of grades inputted on Area tab of IP Tool dialog.

The switch to change the order of the grades is located near the end of the **Configuration Options** in all the scripts (Figure 5).

```

64 # Order Grades. If this is set to 0, then grades will be in the order entered
65 # If set to 1, then grades ordered alphabetically
66 ORDER_GRADES = 1
67
68 # == END CONFIGURATION OPTIONS ==
    
```

Figure 5. Grade ordering option in the ip-period.py script.

In the first case, the grade items are ordered alphabetically as this is the default in the standard scripts (Table 3). In the second case, the order of the grade items has been changed to report in the order they were entered into the Area tab of the IP Tool dialog (Figure 4).

Case 1

66 ORDER\_GRADES = 1

Total Ore	
Tons	4916292
Volume	1966517
CUIDW	0.5676
EQCU	0.7257
MOIDW	0.0565

Case 2

66 ORDER\_GRADES = 0

Total Ore	
Tons	4916292
Volume	1966517
CUIDW	0.5676
MOIDW	0.0565
EQCU	0.7257

Table 3. Ordering the grade items while reporting.

There are user configuration options with each standard script that can easily be setup to enhance reporting from one user to the next. For more information on configuring standard scripts contact Mintec Technical Services at [ts@mintec.com](mailto:ts@mintec.com).