

Question/Issue

My arc center values ('I', 'J' and 'K') are outputting as i\$, j\$ and k\$ in X2-MR1. They were fine before, what happened?

Answer/Solution

Some basic MP history:

Any variable used for output that is NOT formatted (FMT) automatically has Format statement 1 (FS 1) applied to format the numerical output and the output is addressed with the variable name.

Example:

Variable: jim

Unformatted output: jim1.2355

Formatted output: X1.24

Starting with X, all predefined variables have a \$ sign appended to them so when they are not formatted and output they are output with the \$ as in the case above.

Exception to this rule – MP has some variables that were always automatically assigned formats and address even if not done in the Post. x\$,y\$,z\$, xr\$, yr\$, zr\$, xh\$, yh\$ and zh\$ are all formatted to FS 1 with an address of X, Y and Z respectively. i\$, j\$ and k\$ are formatted to FS 1 and output with the I, J, K address respectively. So even if these variables were not formatted in a post they would look correctly.

The solution in X2-MR1 is to format the variables for output:

```
fmt I 2 i$ # Arc center description in X
fmt J 2 j$ # Arc center description in Y
fmt K 2 k$ # Arc center description in Z
```

Where '2' would be the fs statement number desired for proper output (generally the same used for 'X', 'Y' and 'Z' output).