

Variable Domain Functions

The variable domain functions place additional restrictions on variables and attributes. The functions and their effects are as follows:

@BND(L, X, U) Limits the variable or attribute *X* to greater or equal to *L* and less than or equal to *U*. For operations across sets, you may use the *@FOR* operator to apply *@BND* to every element. For example, to set lower and upper bounds of 1 and 100 on the *X* attribute of all elements of the set MYSET, enter:

```
@FOR( MYSET( I): @BND( 1, X, 100))
```

@BIN(X) Limits the variable or attribute *X* to a binary integer value (0 or 1.) For operations across sets, you may use the *@FOR* operator to apply *@BIN* to the desired elements. For example, to make the *X* attribute of all elements of the set MYSET binary integer, enter:

```
@FOR( MYSET( I): @BIN( X))
```

@FREE(X) Removes the default lower bound of zero on a variable or attribute, allowing it to take any positive or negative value. For operations across sets, you may use the *@FOR* operator to apply *@FREE* to the desired elements. For example, to make the *X* attribute of all elements of the set MYSET unconstrained in sign, enter:

```
@FOR( MYSET( I): @FREE( X))
```

@GIN(X) Limits the variable or attribute *X* to only integer values. For operations across sets, you may use the *@FOR* operator to apply *@GIN* to the desired elements. For example, to make the *X* attribute of all elements of the set MYSET integer, enter:

```
@FOR( MYSET( I): @GIN( X))
```