

## Frequency Hot Parameters

- 1) There are 3 equivalent ways to use Peavey fader !A1 (or any other fader) to control the range of a parameter's frequency above 0 hz. These are shown below, where it is understood that the hot parameter !A1 will appear in red while the operation and values appear in black.
  - a) !A1 \* 60 nn      means the frequency will have a range of 0 hz to 60 note numbers (or halfsteps) above C 0 in increments of  $60/128 = 0.46875$ th of a halfstep = 46.875 cents.
  - b) !A1 \* 4 c      means the frequency will have a range from 0 hz to C 4 (middle C)
  - c) A1 \* 261.65 hz      means the frequency will have a range from 0-261.65 hz (middle c).
  
- 2) Similarly, there are 9 equivalent ways to control the range of a parameter's frequency above, say, 261.65 hz:
  - a) 60 nn + (!A1 \* 60 nn)
  - b) 4 c + (!A1 \* 60 nn)
  - c) 261.65 hz (!A1 \* 60 nn)and so on, substituting (!A1 \* 4 c) and (!A1 \* 261.65 hz) for (!A1 \* 60 nn).
  
- 3) Bear in mind that the greater the frequency range is, the greater the frequency increments will be.