**Flex Commands**

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| --- | --- | --- | --- |
| **PCOM** | **SCOM** | **Input Parameters** | **Notes** |
| boun | side | xmin xmax (ymin ymax) (zmin zmax) | Must have 2, 4 or 6 input parameters |
| calc | avrg | avgname arrayname weightoption region ibeg iend (jbeg jend) (kbeg kend) |  |
| avgname arrayname weightoption NOD2 mat1 mat2 rootopt ibeg iend (jbeg jend) (kbeg kend) |
| disp | - |  |
| max | dataname minname maxname |  |
| pres | - |  |
| strs | - |  |
| circ | defn | circname |  |
| elem | type connect value |  |
| data | form | option format (idtag) |  |
| out | dataname |  |
| polr | real imag option amp phase |  |
| exec | - | ntime | Input parameter is string |
| extr | ref | refoption xref (yref) (zref) |  |
| defn | extoption |  |
| driv | driv\_array |  |
| node | ibegin iend (jbegin jend) (kbegin kend) |  |
| func | sine | frequency amplitude (phaseshift) (nperiod) (valuadd) |  |
| step | amplitude2 steptime amplitude1 |  |
| wvlt | frequency amplitude |  |
| geom | xcrd | xbegin xend ibegin iend (ratio) |  |
| ycrd | ybegin yend jbegin jend (ratio) |  |
| zcrd | zbegin zend kbegin kend (ratio) |  |
| keypnt | nikey njkey nkkey |  |
| grd (grid) | - | igrid (jgrid) (kgrid) |  |
| grph | arrow | option |  |
| blok | blockname [parameters(ibegin iend) (jbegin jend) (kbegin kend)] |  |
| eye | xvalue (yvalue) (zvalue) |  |
| imag | (tiff\_filename) |  |
| line | option |  |
| mirr | axis option |  |
| nvew | nvew (type) |  |
| plot | matr (blockname) |  |
| plot | datan (blockname) |  |
| plot | shap numshape (shapedata) phaseshift |  |
| plot | flxhst irecordn |  |
| set | option parameters | Either wndo or imag option |
| pset | option parameters | Only wndo option |
| vert | xoption (yoption) (zoption) |  |
| piez | wndo | ibegin iend (jbegin jend) (kbegin kend) |  |
| defn | electrodename (areascale) |  |
| node | ibegin iend (jbegin jend) (kgebin kend) |  |
| nod2 | mat1 mat2 ibegin iend (jbegin jend) (kbegin kend) |  |
| bc | Electrodename option (histname) | histname not needed for GRND option |
| conn | electrodename circuitname sourceoption (hitsname) (scalehist) (shifthist) |  |
| plod | pdef | plodname presname |  |
| vctr | vectorname vx (vy) (vz) |  |
| sdef | plodname direcname ibegin iend (jbegin jend) (kbegin kend) |  |
| pout | form | format idtag |  |
| hist | datanames (ibegin iend iinc) (jbegin jend jinc) (kbegin kend kinc) |  |
| histname | object\_type option object\_name |  |
| prcs | - | - |  |
| rest | - | - |  |
| - | file restart\_input\_file |  |
| - | writ restart\_output\_file |  |
| - | no flie\_option |  |
| - | yes file\_option |  |
| shap | data | arrayname |  |
| freq | frequency |  |
| node | ibegin iend (jbegin jend) (kbegin kend) |  |
| site | cyln | matname iaxis center1 center2 radbegin radend | Can create circle in 2D models |
| regn | matname (ibegin iend) (jbegin jend) (kbegin kend) |  |
| regndubl | ibegf iendf jbegf jendf (kbegf kendf) dupdir ncopy (invertop) |  |
| stop | - | - |  |
| term | - | - |  |
| time | - | timebegin (timefactor) | Sets default value for timestep |
| titl | - | id title | id up to 8 characters,  title up to 60 characters |
| zone | - | ibegin iend (jbegin jend) (kbegin kend) | No iratio |

**Symb Commands**

|  |  |  |  |
| --- | --- | --- | --- |
| **Function** | **Option** | **Input Parameters** | **Description** |
| do | - | doname dovariable nbegin nend (ninc) | The do statement |
| endStatement | - | linename | The end$ statement |
| getKeyword | - | vname function1 | The #get keyword |
| ifStatement | if | datum1 op datum2 | The if statement |
| elseif | datum1 op datum2 |
| else | - |
| endif | - |
| insertLine | - | line | Inserts string as a line to flex input file |
| key | keycord | direction indxbegin valuebegin dvalue1 (dvalue2) (dvalue3) | 1 2 or 3 dvalue inputs only |
| keyindx | direction indxstart indxstop ivalindxstart spacing minval |
| msg | - | nl line1string line2string . . . | The #msg option |
| proc | save | procname | The proc (procedure) statement;  save erase and execute options  nrepeat must be integer |
| eras | procname |
| exec | procname (nrepeat) |
| pzflex | - | bit precision filename | Runs filename in PZFlex |
| pzflexHelp | - | - | Opens PZFlex html help |
| readOption | - | filename | The #read option |
| saveOption | - | fname | The #save option |
| symb | - | vname (value) | Create a symb equal to an integer. Or equal to the addition, subtraction, multiplication or division of two strings. |
| - | vname operationsign string1 string2 |

**Review Commands**

|  |  |  |  |
| --- | --- | --- | --- |
| **PCOM** | **SCOM** | **Input Parameters** | **Notes** |
| asourceReview | fluid | density wavespeed |  |
| file | filename |  |
| ref | (xref) (yref) (zref) refoption |  |
| resolution | freqmax (nstcyc) (delx) |  |
| rect | axisname xmin xmax ymin ymax drivename scale timeshift |  |
| run | pulse\_length |  |
| extrReview | data | pathname |  |
| file | filename (option) (field) |  |
| freq | frequency (attenuation) |  |
| slvr | slvrtype |  |
| surf | quad axisname ni nj x1 y1 z1 x2 y2 z2 x3 y3 z3 x4 y4 z4 |  |
| spot | x (y) (z) |  |
| type | option |  |
| calc | (quad\_order) (stor\_opt) (nsection) (length) (iprint) |  |
| freqReview | file | fftfilename |  |
| time | pad npad (time\_phase0) (inc\_scale) |  |
| impd | [curvevolt] [curvecharge] (scalevolt) (scalecharge) (impopt) |  |
| funcReview | sine | frequency amplitude (phaseshift) (nperiod) (valuadd) |  |
| step | amplitude2 steptime amplitude1 |  |
| wvlt | frequency amplitude |  |
| grphReview | nvew | nview (type) |  |
| plot | [curve1] [curve2] … [curve6] | All inputs are strings |
| set | option parameters | Either wndo or imag option |
| pset | option parameters | Only wndo option |
| view | iview |  |
| writ | (options) filename |  |
| imag | (tiff\_filename) |  |
| eye | xvalue (yvalue) (zvalue) |  |
| line | option |  |
| makeReview | file | makefilename (option) |  |
| curve | <mathematical expression defining new curve record> | One string input for expression |
| labl | label |  |
| pzflexReview | - | bit precision filename |  |
| readOptionReview | - | filename | The #read option |
| readReview | - | filename pathname |  |
| stopReview | - | - |  |
| termReview | - | - |  |