 Input File: dram.sp
 Command line options: /home/apps/vdec/Synopsys/hspice/P-2019.06-SP2-2/hspice/linux64/hspice
-i dram.sp -o dram_sweep_mc.lis
 Start time: Thu May 1 15:50:59 2025
 lic:
 lic: FLEXlm: SDK_12.3
 lic: USER: hari   HOSTNAME: zxp007.u-aizu.ac.jp
 lic: HOSTID: 484d7ed15f49   PID: 24766
 lic: Using FLEXlm license file:
 lic: 1700@133.11.58.5
 lic: Checkout 1 hspice
 lic: License/Maintenance for hspice will expire on 31-mar-2026/2024.09
 lic: 22(in_use)/180(total) FLOATING license(s) on SERVER 1700@133.11.58.5
 lic:
  info Monte Carlo simulation is detected, increase number of measure digits to 7 for Monte
Carlo post processing.
  info option measform has been reset to 1 to reduce measure file storage and enable advanced
Monte Carlo data mining.
  warning (cmosn:m1 (dram.sp:18)) Warning: Acde = 0.276941 may be too small in BSIM4
model with w=1.2e-07 l=4.5e-08.
*** info *** index=1 is a nominal sample in Monte Carlo.
*** info *** The MCG Random Number Generator and .Option Use_Agauss_Format = Yes are set
as defaults starting with HSPICE L-2016.06 to address the needs of advanced technology nodes
with large samples and/or large circuits, particularly for distributed processing.
*** Should you want backward compatibility, please use the following options:
For traditional Gaussian style variations, use .Option Random_Generator = 3LC;
For Variation Block style variations, use .Option Random_Generator = MOA.

MONTE CARLO DEFINITIONS

Option sampling_method was set, variation block and agauss format variation are in effect.

Random number generator is MCG   , and seed =   1, stream =   1
 ****
 ****** option summary
 ******
 runlvl = 3   bypass = 2.0000

  *** monte carlo index =   1 ***

 ******
 ** dram ptm45nm with supported monte carlo approach

****** transient analysis tnom= 25.000 temp= 25.000 ******
rtl= 13.7562u targ= 13.7562u trig= 0.
avg_cur= -14.5973p from= 0.   to= 13.7562u
avg_pow= -10.2467p from= 0.   to= 13.7562u

      ***** job concluded

  *** monte carlo index =   2 ***

rtl= 19.4835u targ= 19.4835u trig= 0.
avg_cur= -12.6587p from= 0.   to= 19.4835u
avg_pow= -8.5924p from= 0.   to= 19.4835u

      ***** job concluded

  *** monte carlo index =   3 ***

rtl= 19.7080u targ= 19.7080u trig= 0.
avg_cur= -12.5951p from= 0.   to= 19.7080u
avg_pow= -8.5392p from= 0.   to= 19.7080u

      ***** job concluded

  *** monte carlo index =   4 ***

rtl= 15.4390u targ= 15.4390u trig= 0.
avg_cur= -13.9573p from= 0.   to= 15.4390u
avg_pow= -9.6937p from= 0.   to= 15.4390u

      ***** job concluded

  *** monte carlo index =   5 ***

rtl= 12.4746u targ= 12.4746u trig= 0.
avg_cur= -15.1278p from= 0.   to= 12.4746u
avg_pow= -10.7099p from= 0.   to= 12.4746u

      ***** job concluded

  *** monte carlo index =   6 ***

rtl= 5.5261u targ= 5.5261u trig= 0.
avg_cur= -19.0902p from= 0.   to= 5.5261u
avg_pow= -14.3081p from= 0.   to= 5.5261u

      ***** job concluded

  *** monte carlo index =   7 ***

rtl= 8.8825u targ= 8.8825u trig= 0.
avg_cur= -16.9040p from= 0.   to= 8.8825u

avg_pow= -12.2936p from= 0.   to= 8.8825u

    ***** job concluded

 *** monte carlo index =   8 ***

rtl= 12.5558u targ= 12.5558u trig= 0.
avg_cur= -15.0929p from= 0.   to= 12.5558u
avg_pow= -10.6792p from= 0.   to= 12.5558u

    ***** job concluded

 *** monte carlo index =   9 ***

rtl= 8.1665u targ= 8.1665u trig= 0.
avg_cur= -17.3153p from= 0.   to= 8.1665u
avg_pow= -12.6669p from= 0.   to= 8.1665u

    ***** job concluded

 *** monte carlo index =   10 ***

rtl= 28.8973u targ= 28.8973u trig= 0.
avg_cur= -10.4903p from= 0.   to= 28.8973u
avg_pow= -6.8221p from= 0.   to= 28.8973u

    ***** job concluded

 *** monte carlo index =   11 ***

rtl= 1.9119u targ= 1.9119u trig= 0.
avg_cur= -22.3122p from= 0.   to= 1.9119u
avg_pow= -17.3919p from= 0.   to= 1.9119u

    ***** job concluded

 *** monte carlo index =   12 ***

rtl= 10.0208u targ= 10.0208u trig= 0.
avg_cur= -16.2938p from= 0.   to= 10.0208u
avg_pow= -11.7442p from= 0.   to= 10.0208u

    ***** job concluded

 *** monte carlo index =   13 ***

rtl= 23.5452u targ= 23.5452u trig= 0.
avg_cur= -11.6063p from= 0.   to= 23.5452u
avg_pow= -7.7222p from= 0.   to= 23.5452u

    ***** job concluded

```
*** monte carlo  index =              14 ***

rtl=  17.0560u  targ=  17.0560u   trig=  0.
avg_cur= -13.4008p  from=  0.        to=  17.0560u
avg_pow=  -9.2182p  from=  0.         to=  17.0560u

      ***** job concluded

 *** monte carlo  index =              15 ***

rtl=  11.0840u  targ=  11.0840u   trig=  0.
avg_cur= -15.7607p  from=  0.        to=  11.0840u
avg_pow= -11.2686p  from=  0.         to=  11.0840u

      ***** job concluded

 *** monte carlo  index =              16 ***

rtl=  11.8429u  targ=  11.8429u   trig=  0.
avg_cur= -15.4067p  from=  0.        to=  11.8429u
avg_pow= -10.9553p  from=  0.         to=  11.8429u

      ***** job concluded

 *** monte carlo  index =              17 ***

rtl=  6.4281u  targ=  6.4281u   trig=  0.
avg_cur= -18.4423p  from=  0.        to=  6.4281u
avg_pow= -13.7042p  from=  0.         to=  6.4281u

      ***** job concluded

 *** monte carlo  index =              18 ***

rtl=  17.2384u  targ=  17.2384u   trig=  0.
avg_cur= -13.3413p  from=  0.        to=  17.2384u
avg_pow=  -9.1676p  from=  0.        to=  17.2384u

      ***** job concluded

 *** monte carlo  index =              19 ***

rtl=  16.2186u  targ=  16.2186u   trig=  0.
avg_cur= -13.6822p  from=  0.        to=  16.2186u
avg_pow=  -9.4580p  from=  0.        to=  16.2186u

      ***** job concluded

 *** monte carlo  index =              20 ***

rtl=  10.5177u  targ=  10.5177u   trig=  0.
avg_cur= -16.0403p  from=  0.        to=  10.5177u
```

avg_pow= -11.5176p from= 0.   to= 10.5177u

     ***** job concluded

  *** monte carlo index =   21 ***

rtl= 11.7206u targ= 11.7206u trig= 0.
avg_cur= -15.4623p from= 0.   to= 11.7206u
avg_pow= -11.0044p from= 0.   to= 11.7206u

     ***** job concluded

  *** monte carlo index =   22 ***

rtl= 12.0274u targ= 12.0274u trig= 0.
avg_cur= -15.3239p from= 0.   to= 12.0274u
avg_pow= -10.8823p from= 0.   to= 12.0274u

     ***** job concluded

  *** monte carlo index =   23 ***

rtl= 14.8539u targ= 14.8539u trig= 0.
avg_cur= -14.1730p from= 0.   to= 14.8539u
avg_pow= -9.8794p from= 0.   to= 14.8539u

     ***** job concluded

  *** monte carlo index =   24 ***

rtl= 9.1024u targ= 9.1024u trig= 0.
avg_cur= -16.7824p from= 0.   to= 9.1024u
avg_pow= -12.1836p from= 0.   to= 9.1024u

     ***** job concluded

  *** monte carlo index =   25 ***

rtl= 19.0281u targ= 19.0281u trig= 0.
avg_cur= -12.7902p from= 0.   to= 19.0281u
avg_pow= -8.7026p from= 0.   to= 19.0281u

     ***** job concluded

  *** monte carlo index =   26 ***

rtl= 23.2692u targ= 23.2692u trig= 0.
avg_cur= -11.6714p from= 0.   to= 23.2692u
avg_pow= -7.7754p from= 0.   to= 23.2692u

     ***** job concluded

```
     *** monte carlo  index =             27 ***

rtl=  9.9552u  targ=  9.9552u   trig=  0.
avg_cur= -16.3277p  from=  0.          to=  9.9552u
avg_pow= -11.7747p  from=  0.           to=  9.9552u

      ***** job concluded

  *** monte carlo  index =             28 ***

rtl=  10.2254u  targ=  10.2254u   trig=  0.
avg_cur= -16.1886p  from=  0.          to=  10.2254u
avg_pow= -11.6501p  from=  0.           to=  10.2254u

      ***** job concluded

  *** monte carlo  index =             29 ***

rtl=  22.7507u  targ=  22.7507u   trig=  0.
avg_cur= -11.7962p  from=  0.          to=  22.7507u
avg_pow=  -7.8777p  from=  0.          to=  22.7507u

      ***** job concluded

  *** monte carlo  index =             30 ***

rtl=  11.4764u  targ=  11.4764u   trig=  0.
avg_cur= -15.5749p  from=  0.          to=  11.4764u
avg_pow= -11.1039p  from=  0.           to=  11.4764u

      ***** job concluded

  *** monte carlo  index =             31 ***

rtl=  8.5257u  targ=  8.5257u   trig=  0.
avg_cur= -17.1058p  from=  0.          to=  8.5257u
avg_pow= -12.4764p  from=  0.           to=  8.5257u

      ***** job concluded

  *** monte carlo  index =             32 ***

rtl=  29.8733u  targ=  29.8733u   trig=  0.
avg_cur= -10.3120p  from=  0.          to=  29.8733u
avg_pow=  -6.6806p  from=  0.          to=  29.8733u

      ***** job concluded

  *** monte carlo  index =             33 ***

rtl=  10.2530u  targ=  10.2530u   trig=  0.
avg_cur= -16.1745p  from=  0.          to=  10.2530u
```

avg_pow= -11.6375p from= 0.   to= 10.2530u

     ***** job concluded

  *** monte carlo index =   34 ***

rtl= 9.3275u targ= 9.3275u   trig= 0.
avg_cur= -16.6599p from= 0.   to= 9.3275u
avg_pow= -12.0731p from= 0.   to= 9.3275u

     ***** job concluded

  *** monte carlo index =   35 ***

rtl= 12.2949u targ= 12.2949u   trig= 0.
avg_cur= -15.2058p from= 0.   to= 12.2949u
avg_pow= -10.7784p from= 0.   to= 12.2949u

     ***** job concluded

  *** monte carlo index =   36 ***

rtl= 24.0268u targ= 24.0268u   trig= 0.
avg_cur= -11.4949p from= 0.   to= 24.0268u
avg_pow= -7.6312p from= 0.   to= 24.0268u

     ***** job concluded

  *** monte carlo index =   37 ***

rtl= 9.1613u targ= 9.1613u   trig= 0.
avg_cur= -16.7502p from= 0.   to= 9.1613u
avg_pow= -12.1545p from= 0.   to= 9.1613u

     ***** job concluded

  *** monte carlo index =   38 ***

rtl= 37.0527u targ= 37.0527u   trig= 0.
avg_cur= -9.1859p from= 0.   to= 37.0527u
avg_pow= -5.8016p from= 0.   to= 37.0527u

     ***** job concluded

  *** monte carlo index =   39 ***

rtl= 23.7203u targ= 23.7203u   trig= 0.
avg_cur= -11.5655p from= 0.   to= 23.7203u
avg_pow= -7.6889p from= 0.   to= 23.7203u

     ***** job concluded

```
     *** monte carlo  index =              40 ***

rtl=  11.0576u  targ=  11.0576u   trig=  0.
avg_cur= -15.7734p  from=  0.         to=  11.0576u
avg_pow= -11.2800p  from=  0.          to=  11.0576u

        ***** job concluded

  *** monte carlo  index =              41 ***

rtl=  9.6962u  targ=  9.6962u   trig=  0.
avg_cur= -16.4632p  from=  0.         to=  9.6962u
avg_pow= -11.8962p  from=  0.          to=  9.6962u

        ***** job concluded

  *** monte carlo  index =              42 ***

rtl=  18.8500u  targ=  18.8500u   trig=  0.
avg_cur= -12.8426p  from=  0.         to=  18.8500u
avg_pow=  -8.7465p  from=  0.         to=  18.8500u

        ***** job concluded

  *** monte carlo  index =              43 ***

rtl=  15.0831u  targ=  15.0831u   trig=  0.
avg_cur= -14.0875p  from=  0.         to=  15.0831u
avg_pow=  -9.8057p  from=  0.          to=  15.0831u

        ***** job concluded

  *** monte carlo  index =              44 ***

rtl=  17.2490u  targ=  17.2490u   trig=  0.
avg_cur= -13.3379p  from=  0.         to=  17.2490u
avg_pow=  -9.1647p  from=  0.         to=  17.2490u

        ***** job concluded

  *** monte carlo  index =              45 ***

rtl=  26.5322u  targ=  26.5322u   trig=  0.
avg_cur= -10.9528p  from=  0.         to=  26.5322u
avg_pow=  -7.1922p  from=  0.         to=  26.5322u

        ***** job concluded

  *** monte carlo  index =              46 ***

rtl=  6.2249u  targ=  6.2249u   trig=  0.
avg_cur= -18.5847p  from=  0.         to=  6.2249u
```

avg_pow= -13.8365p from= 0.   to= 6.2249u

       ***** job concluded

  *** monte carlo index =   47 ***

rtl= 4.8848u targ= 4.8848u trig= 0.
avg_cur= -19.5822p from= 0.   to= 4.8848u
avg_pow= -14.7704p from= 0.   to= 4.8848u

       ***** job concluded

  *** monte carlo index =   48 ***

rtl= 15.3208u targ= 15.3208u trig= 0.
avg_cur= -14.0002p from= 0.   to= 15.3208u
avg_pow= -9.7306p from= 0.   to= 15.3208u

       ***** job concluded

  *** monte carlo index =   49 ***

rtl= 5.3341u targ= 5.3341u trig= 0.
avg_cur= -19.2342p from= 0.   to= 5.3341u
avg_pow= -14.4430p from= 0.   to= 5.3341u

       ***** job concluded

  *** monte carlo index =   50 ***

rtl= 18.2474u targ= 18.2474u trig= 0.
avg_cur= -13.0235p from= 0.   to= 18.2474u
avg_pow= -8.8987p from= 0.   to= 18.2474u

       ***** job concluded

  *** monte carlo index =   51 ***

rtl= 11.2327u targ= 11.2327u trig= 0.
avg_cur= -15.6896p from= 0.   to= 11.2327u
avg_pow= -11.2055p from= 0.   to= 11.2327u

       ***** job concluded

  *** monte carlo index =   52 ***

rtl= 24.6135u targ= 24.6135u trig= 0.
avg_cur= -11.3625p from= 0.   to= 24.6135u
avg_pow= -7.5235p from= 0.   to= 24.6135u

       ***** job concluded

*** monte carlo index =   53 ***

rtl= 18.6331u targ= 18.6331u   trig= 0.
avg_cur= -12.9070p from= 0.   to= 18.6331u
avg_pow= -8.8006p from= 0.   to= 18.6331u

     ***** job concluded

 *** monte carlo index =   54 ***

rtl= 20.7907u targ= 20.7907u   trig= 0.
avg_cur= -12.2976p from= 0.   to= 20.7907u
avg_pow= -8.2915p from= 0.   to= 20.7907u

     ***** job concluded

 *** monte carlo index =   55 ***

rtl= 11.4732u targ= 11.4732u   trig= 0.
avg_cur= -15.5764p from= 0.   to= 11.4732u
avg_pow= -11.1052p from= 0.   to= 11.4732u

     ***** job concluded

 *** monte carlo index =   56 ***

rtl= 9.9682u targ= 9.9682u   trig= 0.
avg_cur= -16.3209p from= 0.   to= 9.9682u
avg_pow= -11.7686p from= 0.   to= 9.9682u

     ***** job concluded

 *** monte carlo index =   57 ***

rtl= 5.7756u targ= 5.7756u   trig= 0.
avg_cur= -18.9066p from= 0.   to= 5.7756u
avg_pow= -14.1365p from= 0.   to= 5.7756u

     ***** job concluded

 *** monte carlo index =   58 ***

rtl= 16.4696u targ= 16.4696u   trig= 0.
avg_cur= -13.5964p from= 0.   to= 16.4696u
avg_pow= -9.3847p from= 0.   to= 16.4696u

     ***** job concluded

 *** monte carlo index =   59 ***

rtl= 9.6045u targ= 9.6045u   trig= 0.
avg_cur= -16.5116p from= 0.   to= 9.6045u

avg_pow= -11.9397p from=   0.   to=   9.6045u

     ***** job concluded

  *** monte carlo index =   60 ***

rtl= 8.0616u targ= 8.0616u trig= 0.
avg_cur= -17.3777p from= 0.   to=   8.0616u
avg_pow= -12.7238p from= 0.   to=   8.0616u

     ***** job concluded

  *** monte carlo index =   61 ***

rtl= 10.7384u targ= 10.7384u trig= 0.
avg_cur= -15.9299p from= 0.   to= 10.7384u
avg_pow= -11.4191p from= 0.   to= 10.7384u

     ***** job concluded

  *** monte carlo index =   62 ***

rtl= 18.5805u targ= 18.5805u trig= 0.
avg_cur= -12.9227p from= 0.   to= 18.5805u
avg_pow= -8.8139p from= 0.   to= 18.5805u

     ***** job concluded

  *** monte carlo index =   63 ***

rtl= 12.5745u targ= 12.5745u trig= 0.
avg_cur= -15.0849p from= 0.   to= 12.5745u
avg_pow= -10.6722p from= 0.   to= 12.5745u

     ***** job concluded

  *** monte carlo index =   64 ***

rtl= 20.8278u targ= 20.8278u trig= 0.
avg_cur= -12.2877p from= 0.   to= 20.8278u
avg_pow= -8.2833p from= 0.   to= 20.8278u

     ***** job concluded

  *** monte carlo index =   65 ***

rtl= 24.2106u targ= 24.2106u trig= 0.
avg_cur= -11.4530p from= 0.   to= 24.2106u
avg_pow= -7.5971p from= 0.   to= 24.2106u

     ***** job concluded

*** monte carlo index =   66 ***

rtl= 16.7790u targ= 16.7790u   trig=   0.
avg_cur= -13.4924p from= 0.   to= 16.7790u
avg_pow= -9.2960p from= 0.   to= 16.7790u

        ***** job concluded

  *** monte carlo index =   67 ***

rtl= 20.1999u targ= 20.1999u   trig=   0.
avg_cur= -12.4580p from= 0.   to= 20.1999u
avg_pow= -8.4249p from= 0.   to= 20.1999u

        ***** job concluded

  *** monte carlo index =   68 ***

rtl= 24.7442u targ= 24.7442u   trig=   0.
avg_cur= -11.3335p from= 0.   to= 24.7442u
avg_pow= -7.4999p from= 0.   to= 24.7442u

        ***** job concluded

  *** monte carlo index =   69 ***

rtl= 18.0926u targ= 18.0926u   trig=   0.
avg_cur= -13.0710p from= 0.   to= 18.0926u
avg_pow= -8.9388p from= 0.   to= 18.0926u

        ***** job concluded

  *** monte carlo index =   70 ***

rtl= 16.7374u targ= 16.7374u   trig=   0.
avg_cur= -13.5063p from= 0.   to= 16.7374u
avg_pow= -9.3078p from= 0.   to= 16.7374u

        ***** job concluded

  *** monte carlo index =   71 ***

rtl=   6.4515u targ=   6.4515u   trig=   0.
avg_cur= -18.4260p from= 0.   to=   6.4515u
avg_pow= -13.6891p from= 0.   to=   6.4515u

        ***** job concluded

  *** monte carlo index =   72 ***

rtl= 15.3706u targ= 15.3706u   trig=   0.
avg_cur= -13.9821p from= 0.   to= 15.3706u

avg_pow= -9.7150p from= 0.   to= 15.3706u

  ***** job concluded

 *** monte carlo index =   73 ***

rtl= 5.1516u targ= 5.1516u   trig= 0.
avg_cur= -19.3735p from= 0.   to= 5.1516u
avg_pow= -14.5739p from= 0.   to= 5.1516u

  ***** job concluded

 *** monte carlo index =   74 ***

rtl= 14.1013u targ= 14.1013u   trig= 0.
avg_cur= -14.4613p from= 0.   to= 14.1013u
avg_pow= -10.1286p from= 0.   to= 14.1013u

  ***** job concluded

 *** monte carlo index =   75 ***

rtl= 17.9770u targ= 17.9770u   trig= 0.
avg_cur= -13.1067p from= 0.   to= 17.9770u
avg_pow= -8.9690p from= 0.   to= 17.9770u

  ***** job concluded

 *** monte carlo index =   76 ***

rtl= 8.7506u targ= 8.7506u   trig= 0.
avg_cur= -16.9780p from= 0.   to= 8.7506u
avg_pow= -12.3605p from= 0.   to= 8.7506u

  ***** job concluded

 *** monte carlo index =   77 ***

rtl= 25.1491u targ= 25.1491u   trig= 0.
avg_cur= -11.2447p from= 0.   to= 25.1491u
avg_pow= -7.4279p from= 0.   to= 25.1491u

  ***** job concluded

 *** monte carlo index =   78 ***

rtl= 17.6952u targ= 17.6952u   trig= 0.
avg_cur= -13.1950p from= 0.   to= 17.6952u
avg_pow= -9.0436p from= 0.   to= 17.6952u

  ***** job concluded

```
      *** monte carlo  index =              79 ***

rtl=  14.0708u  targ=  14.0708u   trig=   0.
avg_cur= -14.4732p  from=   0.          to=  14.0708u
avg_pow= -10.1389p  from=   0.           to=  14.0708u

        ***** job concluded

  *** monte carlo  index =              80 ***

rtl=  8.4383u  targ=  8.4383u   trig=   0.
avg_cur= -17.1562p  from=   0.          to=  8.4383u
avg_pow= -12.5221p  from=   0.           to=  8.4383u

        ***** job concluded

  *** monte carlo  index =              81 ***

rtl=  11.1433u  targ=  11.1433u   trig=   0.
avg_cur= -15.7322p  from=   0.          to=  11.1433u
avg_pow= -11.2434p  from=   0.           to=  11.1433u

        ***** job concluded

  *** monte carlo  index =              82 ***

rtl=  9.3935u  targ=  9.3935u   trig=   0.
avg_cur= -16.6243p  from=   0.          to=  9.3935u
avg_pow= -12.0411p  from=   0.           to=  9.3935u

        ***** job concluded

  *** monte carlo  index =              83 ***

rtl=  10.6791u  targ=  10.6791u   trig=   0.
avg_cur= -15.9594p  from=   0.          to=  10.6791u
avg_pow= -11.4455p  from=   0.           to=  10.6791u

        ***** job concluded

  *** monte carlo  index =              84 ***

rtl=  18.4819u  targ=  18.4819u   trig=   0.
avg_cur= -12.9523p  from=   0.          to=  18.4819u
avg_pow=  -8.8388p  from=   0.          to=  18.4819u

        ***** job concluded

  *** monte carlo  index =              85 ***

rtl=  11.6660u  targ=  11.6660u   trig=   0.
avg_cur= -15.4873p  from=   0.          to=  11.6660u
```

avg_pow= -11.0264p from= 0.   to= 11.6660u

    ***** job concluded

  *** monte carlo index =   86 ***

rtl= 15.4115u targ= 15.4115u   trig= 0.
avg_cur= -13.9672p from= 0.   to= 15.4115u
avg_pow= -9.7022p from= 0.   to= 15.4115u

    ***** job concluded

  *** monte carlo index =   87 ***

rtl= 11.5455u targ= 11.5455u   trig= 0.
avg_cur= -15.5428p from= 0.   to= 11.5455u
avg_pow= -11.0755p from= 0.   to= 11.5455u

    ***** job concluded

  *** monte carlo index =   88 ***

rtl= 12.6120u targ= 12.6120u   trig= 0.
avg_cur= -15.0688p from= 0.   to= 12.6120u
avg_pow= -10.6582p from= 0.   to= 12.6120u

    ***** job concluded

  *** monte carlo index =   89 ***

rtl= 10.1572u targ= 10.1572u   trig= 0.
avg_cur= -16.2235p from= 0.   to= 10.1572u
avg_pow= -11.6813p from= 0.   to= 10.1572u

    ***** job concluded

  *** monte carlo index =   90 ***

rtl= 17.3553u targ= 17.3553u   trig= 0.
avg_cur= -13.3035p from= 0.   to= 17.3553u
avg_pow= -9.1355p from= 0.   to= 17.3553u

    ***** job concluded

  *** monte carlo index =   91 ***

rtl= 6.0711u targ= 6.0711u   trig= 0.
avg_cur= -18.6938p from= 0.   to= 6.0711u
avg_pow= -13.9380p from= 0.   to= 6.0711u

    ***** job concluded

```
        *** monte carlo  index =              92 ***

rtl= 18.2338u  targ= 18.2338u   trig=  0.
avg_cur= -13.0276p  from=  0.         to= 18.2338u
avg_pow=  -8.9022p  from=  0.         to= 18.2338u

       ***** job concluded

  *** monte carlo  index =              93 ***

rtl=  6.4300u  targ=  6.4300u   trig=  0.
avg_cur= -18.4410p  from=  0.         to=  6.4300u
avg_pow= -13.7030p  from=  0.          to=  6.4300u

       ***** job concluded

  *** monte carlo  index =              94 ***

rtl= 12.5875u  targ= 12.5875u   trig=  0.
avg_cur= -15.0793p  from=  0.        to= 12.5875u
avg_pow= -10.6673p  from=  0.         to= 12.5875u

       ***** job concluded

  *** monte carlo  index =              95 ***

rtl= 16.4149u  targ= 16.4149u   trig=  0.
avg_cur= -13.6150p  from=  0.        to= 16.4149u
avg_pow=  -9.4005p  from=  0.         to= 16.4149u

       ***** job concluded

  *** monte carlo  index =              96 ***

rtl=  8.7511u  targ=  8.7511u   trig=  0.
avg_cur= -16.9777p  from=  0.        to=  8.7511u
avg_pow= -12.3602p  from=  0.         to=  8.7511u

       ***** job concluded

  *** monte carlo  index =              97 ***

rtl= 15.4051u  targ= 15.4051u   trig=  0.
avg_cur= -13.9696p  from=  0.        to= 15.4051u
avg_pow=  -9.7042p  from=  0.        to= 15.4051u

       ***** job concluded

  *** monte carlo  index =              98 ***

rtl=  8.3010u  targ=  8.3010u   trig=  0.
avg_cur= -17.2361p  from=  0.        to=  8.3010u
```

avg_pow= -12.5948p from= 0.   to= 8.3010u

     ***** job concluded

  *** monte carlo index =   99 ***

rtl= 18.1331u targ= 18.1331u trig= 0.
avg_cur= -13.0585p from= 0.   to= 18.1331u
avg_pow= -8.9283p from= 0.   to= 18.1331u

     ***** job concluded

  *** monte carlo index =   100 ***

rtl= 18.4984u targ= 18.4984u trig= 0.
avg_cur= -12.9474p from= 0.   to= 18.4984u
avg_pow= -8.8346p from= 0.   to= 18.4984u

     ***** job concluded

  *** monte carlo index =   101 ***

rtl= 10.1709u targ= 10.1709u trig= 0.
avg_cur= -16.2164p from= 0.   to= 10.1709u
avg_pow= -11.6750p from= 0.   to= 10.1709u

     ***** job concluded

  *** monte carlo index =   102 ***

rtl= 11.9362u targ= 11.9362u trig= 0.
avg_cur= -15.3647p from= 0.   to= 11.9362u
avg_pow= -10.9182p from= 0.   to= 11.9362u

     ***** job concluded

  *** monte carlo index =   103 ***

rtl= 34.3894u targ= 34.3894u trig= 0.
avg_cur= -9.5696p from= 0.   to= 34.3894u
avg_pow= -6.0982p from= 0.   to= 34.3894u

     ***** job concluded

  *** monte carlo index =   104 ***

rtl= 20.7470u targ= 20.7470u trig= 0.
avg_cur= -12.3093p from= 0.   to= 20.7470u
avg_pow= -8.3013p from= 0.   to= 20.7470u

     ***** job concluded

```
      *** monte carlo  index =              105 ***


rtl=  14.0075u  targ=  14.0075u   trig=   0.
avg_cur= -14.4980p  from=  0.          to=  14.0075u
avg_pow= -10.1604p  from=  0.           to=  14.0075u

        ***** job concluded


  *** monte carlo  index =              106 ***


rtl=  12.7683u  targ=  12.7683u   trig=   0.
avg_cur= -15.0024p  from=  0.          to=  12.7683u
avg_pow= -10.5999p  from=  0.           to=  12.7683u


        ***** job concluded


  *** monte carlo  index =              107 ***


rtl=  17.4095u  targ=  17.4095u   trig=   0.
avg_cur= -13.2860p  from=  0.          to=  17.4095u
avg_pow=  -9.1207p  from=  0.           to=  17.4095u


        ***** job concluded


  *** monte carlo  index =              108 ***


rtl=  33.4094u  targ=  33.4094u   trig=   0.
avg_cur=  -9.7201p  from=  0.          to=  33.4094u
avg_pow=  -6.2153p  from=  0.           to=  33.4094u


        ***** job concluded


  *** monte carlo  index =              109 ***


rtl=  17.3552u  targ=  17.3552u   trig=   0.
avg_cur= -13.3035p  from=  0.          to=  17.3552u
avg_pow=  -9.1355p  from=  0.           to=  17.3552u


        ***** job concluded


  *** monte carlo  index =              110 ***


rtl=  10.1659u  targ=  10.1659u   trig=   0.
avg_cur= -16.2190p  from=  0.          to=  10.1659u
avg_pow= -11.6773p  from=  0.           to=  10.1659u


        ***** job concluded


  *** monte carlo  index =              111 ***


rtl=  10.6876u  targ=  10.6876u   trig=   0.
avg_cur= -15.9552p  from=  0.          to=  10.6876u
```

avg_pow= -11.4417p from= 0.   to= 10.6876u

       ***** job concluded

  *** monte carlo index =   112 ***

rtl= 14.6602u targ= 14.6602u   trig= 0.
avg_cur= -14.2462p from= 0.   to= 14.6602u
avg_pow= -9.9425p from= 0.   to= 14.6602u

       ***** job concluded

  *** monte carlo index =   113 ***

rtl= 2.9356u targ= 2.9356u   trig= 0.
avg_cur= -21.3149p from= 0.   to= 2.9356u
avg_pow= -16.4270p from= 0.   to= 2.9356u

       ***** job concluded

  *** monte carlo index =   114 ***

rtl= 12.3044u targ= 12.3044u   trig= 0.
avg_cur= -15.2017p from= 0.   to= 12.3044u
avg_pow= -10.7748p from= 0.   to= 12.3044u

       ***** job concluded

  *** monte carlo index =   115 ***

rtl= 7.5741u targ= 7.5741u   trig= 0.
avg_cur= -17.6767p from= 0.   to= 7.5741u
avg_pow= -12.9973p from= 0.   to= 7.5741u

       ***** job concluded

  *** monte carlo index =   116 ***

rtl= 18.8518u targ= 18.8518u   trig= 0.
avg_cur= -12.8420p from= 0.   to= 18.8518u
avg_pow= -8.7461p from= 0.   to= 18.8518u

       ***** job concluded

  *** monte carlo index =   117 ***

rtl= 9.7469u targ= 9.7469u   trig= 0.
avg_cur= -16.4365p from= 0.   to= 9.7469u
avg_pow= -11.8723p from= 0.   to= 9.7469u

       ***** job concluded

```
     *** monte carlo  index =                118 ***

rtl=  10.8303u  targ=  10.8303u   trig=   0.
avg_cur= -15.8844p  from=  0.          to=  10.8303u
avg_pow= -11.3786p  from=  0.           to=  10.8303u

        ***** job concluded

  *** monte carlo  index =                119 ***

rtl=  16.1605u  targ=  16.1605u   trig=   0.
avg_cur= -13.7022p  from=  0.          to=  16.1605u
avg_pow=  -9.4751p  from=  0.           to=  16.1605u

        ***** job concluded

  *** monte carlo  index =                120 ***

rtl=  12.2429u  targ=  12.2429u   trig=   0.
avg_cur= -15.2286p  from=  0.          to=  12.2429u
avg_pow= -10.7984p  from=  0.           to=  12.2429u

        ***** job concluded

  *** monte carlo  index =                121 ***

rtl=  13.7094u  targ=  13.7094u   trig=   0.
avg_cur= -14.6160p  from=  0.          to=  13.7094u
avg_pow= -10.2629p  from=  0.           to=  13.7094u

        ***** job concluded

  *** monte carlo  index =                122 ***

rtl=  19.6706u  targ=  19.6706u   trig=   0.
avg_cur= -12.6056p  from=  0.          to=  19.6706u
avg_pow=  -8.5480p  from=  0.           to=  19.6706u

        ***** job concluded

  *** monte carlo  index =                123 ***

rtl=  13.1867u  targ=  13.1867u   trig=   0.
avg_cur= -14.8278p  from=  0.          to=  13.1867u
avg_pow= -10.4474p  from=  0.           to=  13.1867u

        ***** job concluded

  *** monte carlo  index =                124 ***

rtl=  9.4431u  targ=  9.4431u   trig=  0.
avg_cur= -16.5977p  from=  0.          to=  9.4431u
```

avg_pow= -12.0172p from= 0.   to= 9.4431u

      ***** job concluded

  *** monte carlo index =   125 ***

rtl= 9.2303u targ= 9.2303u trig= 0.
avg_cur= -16.7125p from= 0.   to= 9.2303u
avg_pow= -12.1206p from= 0.   to= 9.2303u

      ***** job concluded

  *** monte carlo index =   126 ***

rtl= 14.7233u targ= 14.7233u trig= 0.
avg_cur= -14.2223p from= 0.   to= 14.7233u
avg_pow= -9.9219p from= 0.   to= 14.7233u

      ***** job concluded

  *** monte carlo index =   127 ***

rtl= 6.5057u targ= 6.5057u trig= 0.
avg_cur= -18.3883p from= 0.   to= 6.5057u
avg_pow= -13.6542p from= 0.   to= 6.5057u

      ***** job concluded

  *** monte carlo index =   128 ***

rtl= 16.4864u targ= 16.4864u trig= 0.
avg_cur= -13.5907p from= 0.   to= 16.4864u
avg_pow= -9.3798p from= 0.   to= 16.4864u

      ***** job concluded

  *** monte carlo index =   129 ***

rtl= 9.7771u targ= 9.7771u trig= 0.
avg_cur= -16.4207p from= 0.   to= 9.7771u
avg_pow= -11.8580p from= 0.   to= 9.7771u

      ***** job concluded

  *** monte carlo index =   130 ***

rtl= 8.7988u targ= 8.7988u trig= 0.
avg_cur= -16.9509p from= 0.   to= 8.7988u
avg_pow= -12.3359p from= 0.   to= 8.7988u

      ***** job concluded

```
        *** monte carlo  index =            131 ***

rtl=  7.5380u  targ=  7.5380u  trig=  0.
avg_cur= -17.6994p  from=  0.        to=  7.5380u
avg_pow= -13.0182p  from=  0.         to=  7.5380u

        ***** job concluded

   *** monte carlo  index =            132 ***

rtl=  6.6048u  targ=  6.6048u  trig=  0.
avg_cur= -18.3198p  from=  0.        to=  6.6048u
avg_pow= -13.5907p  from=  0.         to=  6.6048u

        ***** job concluded

   *** monte carlo  index =            133 ***

rtl=  3.4236u  targ=  3.4236u  trig=  0.
avg_cur= -20.8594p  from=  0.        to=  3.4236u
avg_pow= -15.9891p  from=  0.         to=  3.4236u

        ***** job concluded

   *** monte carlo  index =            134 ***

rtl=  11.0563u  targ=  11.0563u  trig=  0.
avg_cur= -15.7741p  from=  0.        to=  11.0563u
avg_pow= -11.2805p  from=  0.         to=  11.0563u

        ***** job concluded

   *** monte carlo  index =            135 ***

rtl=  11.4090u  targ=  11.4090u  trig=  0.
avg_cur= -15.6064p  from=  0.        to=  11.4090u
avg_pow= -11.1318p  from=  0.         to=  11.4090u

        ***** job concluded

   *** monte carlo  index =            136 ***

rtl=  14.7898u  targ=  14.7898u  trig=  0.
avg_cur= -14.1971p  from=  0.        to=  14.7898u
avg_pow=  -9.9002p  from=  0.         to=  14.7898u

        ***** job concluded

   *** monte carlo  index =            137 ***

rtl=  22.4732u  targ=  22.4732u  trig=  0.
avg_cur= -11.8644p  from=  0.        to=  22.4732u
```

avg_pow= -7.9337p from= 0.   to= 22.4732u

　　　***** job concluded

　*** monte carlo index =　　　　　138 ***

rtl= 20.7192u targ= 20.7192u trig= 0.
avg_cur= -12.3168p from= 0.   to= 20.7192u
avg_pow= -8.3075p from= 0.   to= 20.7192u

　　　***** job concluded

　*** monte carlo index =　　　　　139 ***

rtl= 16.4643u targ= 16.4643u trig= 0.
avg_cur= -13.5982p from= 0.   to= 16.4643u
avg_pow= -9.3862p from= 0.   to= 16.4643u

　　　***** job concluded

　*** monte carlo index =　　　　　140 ***

rtl= 32.7008u targ= 32.7008u trig= 0.
avg_cur= -9.8323p from= 0.   to= 32.7008u
avg_pow= -6.3030p from= 0.   to= 32.7008u

　　　***** job concluded

　*** monte carlo index =　　　　　141 ***

rtl= 9.9481u targ= 9.9481u trig= 0.
avg_cur= -16.3314p from= 0.   to= 9.9481u
avg_pow= -11.7780p from= 0.   to= 9.9481u

　　　***** job concluded

　*** monte carlo index =　　　　　142 ***

rtl= 14.6954u targ= 14.6954u trig= 0.
avg_cur= -14.2328p from= 0.   to= 14.6954u
avg_pow= -9.9310p from= 0.   to= 14.6954u

　　　***** job concluded

　*** monte carlo index =　　　　　143 ***

rtl= 12.8215u targ= 12.8215u trig= 0.
avg_cur= -14.9799p from= 0.   to= 12.8215u
avg_pow= -10.5803p from= 0.   to= 12.8215u

　　　***** job concluded

*** monte carlo index =   144 ***

rtl= 4.5811u targ= 4.5811u trig= 0.
avg_cur= -19.8278p from= 0.   to= 4.5811u
avg_pow= -15.0028p from= 0.   to= 4.5811u

        ***** job concluded

   *** monte carlo index =   145 ***

rtl= 7.6851u targ= 7.6851u trig= 0.
avg_cur= -17.6073p from= 0.   to= 7.6851u
avg_pow= -12.9337p from= 0.   to= 7.6851u

        ***** job concluded

   *** monte carlo index =   146 ***

rtl= 11.9691u targ= 11.9691u trig= 0.
avg_cur= -15.3500p from= 0.   to= 11.9691u
avg_pow= -10.9053p from= 0.   to= 11.9691u

        ***** job concluded

   *** monte carlo index =   147 ***

rtl= 21.5811u targ= 21.5811u trig= 0.
avg_cur= -12.0896p from= 0.   to= 21.5811u
avg_pow= -8.1193p from= 0.   to= 21.5811u

        ***** job concluded

   *** monte carlo index =   148 ***

rtl= 10.9496u targ= 10.9496u trig= 0.
avg_cur= -15.8259p from= 0.   to= 10.9496u
avg_pow= -11.3266p from= 0.   to= 10.9496u

        ***** job concluded

   *** monte carlo index =   149 ***

rtl= 26.0140u targ= 26.0140u trig= 0.
avg_cur= -11.0602p from= 0.   to= 26.0140u
avg_pow= -7.2788p from= 0.   to= 26.0140u

        ***** job concluded

   *** monte carlo index =   150 ***

rtl= 18.0283u targ= 18.0283u trig= 0.
avg_cur= -13.0908p from= 0.   to= 18.0283u

avg_pow= -8.9556p from= 0.   to= 18.0283u

      ***** job concluded

  *** monte carlo index =   151 ***

rtl= 20.1345u targ= 20.1345u trig= 0.
avg_cur= -12.4760p from= 0.   to= 20.1345u
avg_pow= -8.4399p from= 0.   to= 20.1345u

      ***** job concluded

  *** monte carlo index =   152 ***

rtl= 20.8905u targ= 20.8905u trig= 0.
avg_cur= -12.2709p from= 0.   to= 20.8905u
avg_pow= -8.2694p from= 0.   to= 20.8905u

      ***** job concluded

  *** monte carlo index =   153 ***

rtl= 18.9153u targ= 18.9153u trig= 0.
avg_cur= -12.8233p from= 0.   to= 18.9153u
avg_pow= -8.7304p from= 0.   to= 18.9153u

      ***** job concluded

  *** monte carlo index =   154 ***

rtl= 5.4196u targ= 5.4196u trig= 0.
avg_cur= -19.1698p from= 0.   to= 5.4196u
avg_pow= -14.3826p from= 0.   to= 5.4196u

      ***** job concluded

  *** monte carlo index =   155 ***

rtl= 26.8962u targ= 26.8962u trig= 0.
avg_cur= -10.8787p from= 0.   to= 26.8962u
avg_pow= -7.1326p from= 0.   to= 26.8962u

      ***** job concluded

  *** monte carlo index =   156 ***

rtl= 5.2701u targ= 5.2701u trig= 0.
avg_cur= -19.2828p from= 0.   to= 5.2701u
avg_pow= -14.4886p from= 0.   to= 5.2701u

      ***** job concluded

```
   *** monte carlo  index =            157 ***

rtl= 12.7875u  targ= 12.7875u  trig=  0.
avg_cur= -14.9942p  from=  0.        to= 12.7875u
avg_pow= -10.5928p  from=  0.         to= 12.7875u

      ***** job concluded

  *** monte carlo  index =            158 ***

rtl= 27.1684u  targ= 27.1684u  trig=  0.
avg_cur= -10.8239p  from=  0.        to= 27.1684u
avg_pow=  -7.0887p  from=  0.         to= 27.1684u

      ***** job concluded

  *** monte carlo  index =            159 ***

rtl=  6.8800u  targ=  6.8800u  trig=  0.
avg_cur= -18.1314p  from=  0.        to=  6.8800u
avg_pow= -13.4162p  from=  0.         to=  6.8800u

      ***** job concluded

  *** monte carlo  index =            160 ***

rtl= 10.8273u  targ= 10.8273u  trig=  0.
avg_cur= -15.8858p  from=  0.        to= 10.8273u
avg_pow= -11.3799p  from=  0.         to= 10.8273u

      ***** job concluded

  *** monte carlo  index =            161 ***

rtl= 10.5546u  targ= 10.5546u  trig=  0.
avg_cur= -16.0218p  from=  0.        to= 10.5546u
avg_pow= -11.5011p  from=  0.         to= 10.5546u

      ***** job concluded

  *** monte carlo  index =            162 ***

rtl= 17.4583u  targ= 17.4583u  trig=  0.
avg_cur= -13.2704p  from=  0.        to= 17.4583u
avg_pow=  -9.1074p  from=  0.         to= 17.4583u

      ***** job concluded

  *** monte carlo  index =            163 ***

rtl=  9.5095u  targ=  9.5095u  trig=  0.
avg_cur= -16.5622p  from=  0.        to=  9.5095u
```

avg_pow= -11.9852p from= 0.   to=   9.5095u

     ***** job concluded

  *** monte carlo index =   164 ***

rtl= 10.5319u targ= 10.5319u trig= 0.
avg_cur= -16.0332p from= 0.   to= 10.5319u
avg_pow= -11.5113p from= 0.   to= 10.5319u

     ***** job concluded

  *** monte carlo index =   165 ***

rtl= 14.8757u targ= 14.8757u trig= 0.
avg_cur= -14.1648p from= 0.   to= 14.8757u
avg_pow= -9.8723p from= 0.   to= 14.8757u

     ***** job concluded

  *** monte carlo index =   166 ***

rtl= 7.1257u targ= 7.1257u trig= 0.
avg_cur= -17.9661p from= 0.   to= 7.1257u
avg_pow= -13.2635p from= 0.   to= 7.1257u

     ***** job concluded

  *** monte carlo index =   167 ***

rtl= 5.4452u targ= 5.4452u trig= 0.
avg_cur= -19.1506p from= 0.   to= 5.4452u
avg_pow= -14.3646p from= 0.   to= 5.4452u

     ***** job concluded

  *** monte carlo index =   168 ***

rtl= 20.5406u targ= 20.5406u trig= 0.
avg_cur= -12.3650p from= 0.   to= 20.5406u
avg_pow= -8.3475p from= 0.   to= 20.5406u

     ***** job concluded

  *** monte carlo index =   169 ***

rtl= 15.6265u targ= 15.6265u trig= 0.
avg_cur= -13.8899p from= 0.   to= 15.6265u
avg_pow= -9.6358p from= 0.   to= 15.6265u

     ***** job concluded

```
     *** monte carlo  index =             170 ***

rtl=  14.7273u  targ=  14.7273u  trig=   0.
avg_cur= -14.2207p  from=  0.          to=  14.7273u
avg_pow=  -9.9205p  from=  0.          to=  14.7273u

        ***** job concluded

  *** monte carlo  index =             171 ***

rtl=  28.3546u  targ=  28.3546u  trig=   0.
avg_cur= -10.5924p  from=  0.          to=  28.3546u
avg_pow=  -6.9035p  from=  0.          to=  28.3546u

        ***** job concluded

  *** monte carlo  index =             172 ***

rtl=  24.3743u  targ=  24.3743u  trig=   0.
avg_cur= -11.4160p  from=  0.          to=  24.3743u
avg_pow=  -7.5670p  from=  0.          to=  24.3743u

        ***** job concluded

  *** monte carlo  index =             173 ***

rtl=   7.1562u  targ=   7.1562u  trig=   0.
avg_cur= -17.9459p  from=  0.          to=   7.1562u
avg_pow= -13.2449p  from=  0.          to=   7.1562u

        ***** job concluded

  *** monte carlo  index =             174 ***

rtl=  26.7961u  targ=  26.7961u  trig=   0.
avg_cur= -10.8990p  from=  0.          to=  26.7961u
avg_pow=  -7.1489p  from=  0.          to=  26.7961u

        ***** job concluded

  *** monte carlo  index =             175 ***

rtl=  16.9007u  targ=  16.9007u  trig=   0.
avg_cur= -13.4520p  from=  0.          to=  16.9007u
avg_pow=  -9.2616p  from=  0.          to=  16.9007u

        ***** job concluded

  *** monte carlo  index =             176 ***

rtl=  26.6926u  targ=  26.6926u  trig=   0.
avg_cur= -10.9200p  from=  0.          to=  26.6926u
```

avg_pow= -7.1659p from= 0.   to= 26.6926u

     ***** job concluded

  *** monte carlo index =   177 ***

rtl= 6.4751u targ= 6.4751u   trig= 0.
avg_cur= -18.4096p from= 0.   to= 6.4751u
avg_pow= -13.6739p from= 0.   to= 6.4751u

     ***** job concluded

  *** monte carlo index =   178 ***

rtl= 16.2222u targ= 16.2222u   trig= 0.
avg_cur= -13.6810p from= 0.   to= 16.2222u
avg_pow= -9.4569p from= 0.   to= 16.2222u

     ***** job concluded

  *** monte carlo index =   179 ***

rtl= 16.6248u targ= 16.6248u   trig= 0.
avg_cur= -13.5440p from= 0.   to= 16.6248u
avg_pow= -9.3400p from= 0.   to= 16.6248u

     ***** job concluded

  *** monte carlo index =   180 ***

rtl= 8.9740u targ= 8.9740u   trig= 0.
avg_cur= -16.8532p from= 0.   to= 8.9740u
avg_pow= -12.2476p from= 0.   to= 8.9740u

     ***** job concluded

  *** monte carlo index =   181 ***

rtl= 17.9615u targ= 17.9615u   trig= 0.
avg_cur= -13.1116p from= 0.   to= 17.9615u
avg_pow= -8.9731p from= 0.   to= 17.9615u

     ***** job concluded

  *** monte carlo index =   182 ***

rtl= 13.3971u targ= 13.3971u   trig= 0.
avg_cur= -14.7417p from= 0.   to= 13.3971u
avg_pow= -10.3723p from= 0.   to= 13.3971u

     ***** job concluded

```
   *** monte carlo  index =            183 ***

rtl=  11.3196u  targ=  11.3196u   trig=  0.
avg_cur= -15.6484p  from=  0.         to=  11.3196u
avg_pow= -11.1690p  from=  0.          to=  11.3196u

      ***** job concluded

  *** monte carlo  index =            184 ***

rtl=  10.7848u  targ=  10.7848u   trig=  0.
avg_cur= -15.9068p  from=  0.         to=  10.7848u
avg_pow= -11.3986p  from=  0.          to=  10.7848u

      ***** job concluded

  *** monte carlo  index =            185 ***

rtl=  19.2594u  targ=  19.2594u   trig=  0.
avg_cur= -12.7231p  from=  0.         to=  19.2594u
avg_pow=  -8.6463p  from=  0.          to=  19.2594u

      ***** job concluded

  *** monte carlo  index =            186 ***

rtl=  18.7857u  targ=  18.7857u   trig=  0.
avg_cur= -12.8616p  from=  0.         to=  18.7857u
avg_pow=  -8.7625p  from=  0.          to=  18.7857u

      ***** job concluded

  *** monte carlo  index =            187 ***

rtl=  23.7914u  targ=  23.7914u   trig=  0.
avg_cur= -11.5490p  from=  0.         to=  23.7914u
avg_pow=  -7.6754p  from=  0.          to=  23.7914u

      ***** job concluded

  *** monte carlo  index =            188 ***

rtl=  18.2729u  targ=  18.2729u   trig=  0.
avg_cur= -13.0157p  from=  0.         to=  18.2729u
avg_pow=  -8.8922p  from=  0.          to=  18.2729u

      ***** job concluded

  *** monte carlo  index =            189 ***

rtl=  15.1275u  targ=  15.1275u   trig=  0.
avg_cur= -14.0711p  from=  0.         to=  15.1275u
```

avg_pow= -9.7915p from= 0.   to= 15.1275u

　　　***** job concluded

　*** monte carlo index =   190 ***

rtl= 15.2140u targ= 15.2140u trig= 0.
avg_cur= -14.0392p from= 0.   to= 15.2140u
avg_pow= -9.7641p from= 0.   to= 15.2140u

　　　***** job concluded

　*** monte carlo index =   191 ***

rtl= 17.7267u targ= 17.7267u trig= 0.
avg_cur= -13.1850p from= 0.   to= 17.7267u
avg_pow= -9.0352p from= 0.   to= 17.7267u

　　　***** job concluded

　*** monte carlo index =   192 ***

rtl= 14.3360u targ= 14.3360u trig= 0.
avg_cur= -14.3702p from= 0.   to= 14.3360u
avg_pow= -10.0497p from= 0.   to= 14.3360u

　　　***** job concluded

　*** monte carlo index =   193 ***

rtl= 11.4358u targ= 11.4358u trig= 0.
avg_cur= -15.5938p from= 0.   to= 11.4358u
avg_pow= -11.1207p from= 0.   to= 11.4358u

　　　***** job concluded

　*** monte carlo index =   194 ***

rtl= 12.5039u targ= 12.5039u trig= 0.
avg_cur= -15.1152p from= 0.   to= 12.5039u
avg_pow= -10.6988p from= 0.   to= 12.5039u

　　　***** job concluded

　*** monte carlo index =   195 ***

rtl= 16.4616u targ= 16.4616u trig= 0.
avg_cur= -13.5991p from= 0.   to= 16.4616u
avg_pow= -9.3870p from= 0.   to= 16.4616u

　　　***** job concluded

```
    *** monte carlo  index =              196 ***


rtl= 21.2130u  targ= 21.2130u   trig=  0.
avg_cur= -12.1856p  from=  0.         to= 21.2130u
avg_pow=  -8.1987p  from=  0.          to= 21.2130u


      ***** job concluded


  *** monte carlo  index =              197 ***


rtl=  9.2233u  targ=  9.2233u   trig=  0.
avg_cur= -16.7163p  from=  0.         to=  9.2233u
avg_pow= -12.1240p  from=  0.          to=  9.2233u


      ***** job concluded


  *** monte carlo  index =              198 ***


rtl= 25.5430u  targ= 25.5430u   trig=  0.
avg_cur= -11.1598p  from=  0.         to= 25.5430u
avg_pow=  -7.3592p  from=  0.          to= 25.5430u


      ***** job concluded


  *** monte carlo  index =              199 ***


rtl= 16.4083u  targ= 16.4083u   trig=  0.
avg_cur= -13.6172p  from=  0.         to= 16.4083u
avg_pow=  -9.4024p  from=  0.          to= 16.4083u


      ***** job concluded


  *** monte carlo  index =              200 ***


rtl= 34.8265u  targ= 34.8265u   trig=  0.
avg_cur=  -9.5042p  from=  0.         to= 34.8265u
avg_pow=  -6.0474p  from=  0.          to= 34.8265u


      ***** job concluded


  *** monte carlo  index =              201 ***


rtl=  7.4644u  targ=  7.4644u   trig=  0.
avg_cur= -17.7461p  from=  0.         to=  7.4644u
avg_pow= -13.0610p  from=  0.          to=  7.4644u


      ***** job concluded


  *** monte carlo  index =              202 ***


rtl=  7.0990u  targ=  7.0990u   trig=  0.
avg_cur= -17.9838p  from=  0.         to=  7.0990u
```

avg_pow= -13.2799p from= 0.   to= 7.0990u

    ***** job concluded

  *** monte carlo index =   203 ***

rtl= 11.2710u targ= 11.2710u trig= 0.
avg_cur= -15.6714p from= 0.   to= 11.2710u
avg_pow= -11.1894p from= 0.   to= 11.2710u

    ***** job concluded

  *** monte carlo index =   204 ***

rtl= 15.2300u targ= 15.2300u trig= 0.
avg_cur= -14.0334p from= 0.   to= 15.2300u
avg_pow= -9.7591p from= 0.   to= 15.2300u

    ***** job concluded

  *** monte carlo index =   205 ***

rtl= 11.0175u targ= 11.0175u trig= 0.
avg_cur= -15.7929p from= 0.   to= 11.0175u
avg_pow= -11.2972p from= 0.   to= 11.0175u

    ***** job concluded

  *** monte carlo index =   206 ***

rtl= 12.6609u targ= 12.6609u trig= 0.
avg_cur= -15.0480p from= 0.   to= 12.6609u
avg_pow= -10.6399p from= 0.   to= 12.6609u

    ***** job concluded

  *** monte carlo index =   207 ***

rtl= 14.5335u targ= 14.5335u trig= 0.
avg_cur= -14.2944p from= 0.   to= 14.5335u
avg_pow= -9.9842p from= 0.   to= 14.5335u

    ***** job concluded

  *** monte carlo index =   208 ***

rtl= 11.2735u targ= 11.2735u trig= 0.
avg_cur= -15.6702p from= 0.   to= 11.2735u
avg_pow= -11.1883p from= 0.   to= 11.2735u

    ***** job concluded

```
     *** monte carlo  index =              209 ***

rtl=  9.2980u  targ=  9.2980u   trig=  0.
avg_cur= -16.6758p  from=  0.          to=   9.2980u
avg_pow= -12.0875p  from=  0.           to=   9.2980u

        ***** job concluded

  *** monte carlo  index =              210 ***

rtl=  12.6987u  targ=  12.6987u   trig=  0.
avg_cur= -15.0318p  from=  0.          to=  12.6987u
avg_pow= -10.6258p  from=  0.           to=  12.6987u

        ***** job concluded

  *** monte carlo  index =              211 ***

rtl=  24.5988u  targ=  24.5988u   trig=  0.
avg_cur= -11.3658p  from=  0.          to=  24.5988u
avg_pow=  -7.5262p  from=  0.           to=  24.5988u

        ***** job concluded

  *** monte carlo  index =              212 ***

rtl=  14.6826u  targ=  14.6826u   trig=  0.
avg_cur= -14.2377p  from=  0.          to=  14.6826u
avg_pow=  -9.9352p  from=  0.           to=  14.6826u

        ***** job concluded

  *** monte carlo  index =              213 ***

rtl=  19.2142u  targ=  19.2142u   trig=  0.
avg_cur= -12.7361p  from=  0.          to=  19.2142u
avg_pow=  -8.6572p  from=  0.           to=  19.2142u

        ***** job concluded

  *** monte carlo  index =              214 ***

rtl=  11.1676u  targ=  11.1676u   trig=  0.
avg_cur= -15.7206p  from=  0.          to=  11.1676u
avg_pow= -11.2330p  from=  0.           to=  11.1676u

        ***** job concluded

  *** monte carlo  index =              215 ***

rtl=  10.4852u  targ=  10.4852u   trig=  0.
avg_cur= -16.0567p  from=  0.          to=  10.4852u
```

avg_pow= -11.5322p from= 0.   to= 10.4852u

      ***** job concluded

  *** monte carlo index =   216 ***

rtl= 10.0982u targ= 10.0982u trig= 0.
avg_cur= -16.2538p from= 0.   to= 10.0982u
avg_pow= -11.7085p from= 0.   to= 10.0982u

      ***** job concluded

  *** monte carlo index =   217 ***

rtl= 21.1424u targ= 21.1424u trig= 0.
avg_cur= -12.2041p from= 0.   to= 21.1424u
avg_pow= -8.2141p from= 0.   to= 21.1424u

      ***** job concluded

  *** monte carlo index =   218 ***

rtl= 13.0433u targ= 13.0433u trig= 0.
avg_cur= -14.8871p from= 0.   to= 13.0433u
avg_pow= -10.4991p from= 0.   to= 13.0433u

      ***** job concluded

  *** monte carlo index =   219 ***

rtl= 12.5986u targ= 12.5986u trig= 0.
avg_cur= -15.0745p from= 0.   to= 12.5986u
avg_pow= -10.6632p from= 0.   to= 12.5986u

      ***** job concluded

  *** monte carlo index =   220 ***

rtl= 21.3185u targ= 21.3185u trig= 0.
avg_cur= -12.1579p from= 0.   to= 21.3185u
avg_pow= -8.1758p from= 0.   to= 21.3185u

      ***** job concluded

  *** monte carlo index =   221 ***

rtl= 24.3097u targ= 24.3097u trig= 0.
avg_cur= -11.4306p from= 0.   to= 24.3097u
avg_pow= -7.5789p from= 0.   to= 24.3097u

      ***** job concluded

```
     *** monte carlo  index =            222 ***

rtl=  9.0853u  targ=  9.0853u   trig=  0.
avg_cur= -16.7918p  from=  0.        to=  9.0853u
avg_pow= -12.1921p  from=  0.         to=  9.0853u

       ***** job concluded

  *** monte carlo  index =            223 ***

rtl=  17.2913u  targ= 17.2913u   trig=  0.
avg_cur= -13.3242p  from=  0.        to=  17.2913u
avg_pow=  -9.1530p  from=  0.         to=  17.2913u

       ***** job concluded

  *** monte carlo  index =            224 ***

rtl=  5.9107u  targ=  5.9107u   trig=  0.
avg_cur= -18.8087p  from=  0.        to=  5.9107u
avg_pow= -14.0451p  from=  0.         to=  5.9107u

       ***** job concluded

  *** monte carlo  index =            225 ***

rtl=  15.4957u  targ= 15.4957u   trig=  0.
avg_cur= -13.9368p  from=  0.        to=  15.4957u
avg_pow=  -9.6761p  from=  0.         to=  15.4957u

       ***** job concluded

  *** monte carlo  index =            226 ***

rtl=  19.4800u  targ= 19.4800u   trig=  0.
avg_cur= -12.6597p  from=  0.        to=  19.4800u
avg_pow=  -8.5933p  from=  0.         to=  19.4800u

       ***** job concluded

  *** monte carlo  index =            227 ***

rtl=  23.8368u  targ= 23.8368u   trig=  0.
avg_cur= -11.5385p  from=  0.        to=  23.8368u
avg_pow=  -7.6668p  from=  0.         to=  23.8368u

       ***** job concluded

  *** monte carlo  index =            228 ***

rtl=  25.7164u  targ= 25.7164u   trig=  0.
avg_cur= -11.1229p  from=  0.        to=  25.7164u
```

avg_pow= -7.3294p from= 0.   to= 25.7164u

     ***** job concluded

  *** monte carlo index =   229 ***

rtl= 11.6084u targ= 11.6084u trig= 0.
avg_cur= -15.5137p from= 0.   to= 11.6084u
avg_pow= -11.0498p from= 0.   to= 11.6084u

     ***** job concluded

  *** monte carlo index =   230 ***

rtl= 19.6960u targ= 19.6960u trig= 0.
avg_cur= -12.5984p from= 0.   to= 19.6960u
avg_pow= -8.5420p from= 0.   to= 19.6960u

     ***** job concluded

  *** monte carlo index =   231 ***

rtl= 19.9613u targ= 19.9613u trig= 0.
avg_cur= -12.5241p from= 0.   to= 19.9613u
avg_pow= -8.4800p from= 0.   to= 19.9613u

     ***** job concluded

  *** monte carlo index =   232 ***

rtl= 11.9944u targ= 11.9944u trig= 0.
avg_cur= -15.3386p from= 0.   to= 11.9944u
avg_pow= -10.8953p from= 0.   to= 11.9944u

     ***** job concluded

  *** monte carlo index =   233 ***

rtl= 18.1797u targ= 18.1797u trig= 0.
avg_cur= -13.0442p from= 0.   to= 18.1797u
avg_pow= -8.9162p from= 0.   to= 18.1797u

     ***** job concluded

  *** monte carlo index =   234 ***

rtl= 41.5028u targ= 41.5028u trig= 0.
avg_cur= -8.6159p from= 0.   to= 41.5028u
avg_pow= -5.3669p from= 0.   to= 41.5028u

     ***** job concluded

```
     *** monte carlo  index =              235 ***

rtl= 10.4223u  targ= 10.4223u   trig=  0.
avg_cur= -16.0885p  from=  0.          to= 10.4223u
avg_pow= -11.5606p  from=  0.           to= 10.4223u

       ***** job concluded

  *** monte carlo  index =              236 ***

rtl=  7.9287u  targ=  7.9287u   trig=  0.
avg_cur= -17.4578p  from=  0.          to=  7.9287u
avg_pow= -12.7969p  from=  0.           to=  7.9287u

       ***** job concluded

  *** monte carlo  index =              237 ***

rtl=  7.3478u  targ=  7.3478u   trig=  0.
avg_cur= -17.8208p  from=  0.          to=  7.3478u
avg_pow= -13.1297p  from=  0.           to=  7.3478u

       ***** job concluded

  *** monte carlo  index =              238 ***

rtl= 19.7585u  targ= 19.7585u   trig=  0.
avg_cur= -12.5808p  from=  0.          to= 19.7585u
avg_pow=  -8.5273p  from=  0.           to= 19.7585u

       ***** job concluded

  *** monte carlo  index =              239 ***

rtl= 22.7287u  targ= 22.7287u   trig=  0.
avg_cur= -11.8016p  from=  0.          to= 22.7287u
avg_pow=  -7.8821p  from=  0.           to= 22.7287u

       ***** job concluded

  *** monte carlo  index =              240 ***

rtl=  9.7032u  targ=  9.7032u   trig=  0.
avg_cur= -16.4595p  from=  0.          to=  9.7032u
avg_pow= -11.8929p  from=  0.           to=  9.7032u

       ***** job concluded

  *** monte carlo  index =              241 ***

rtl= 22.5063u  targ= 22.5063u   trig=  0.
avg_cur= -11.8562p  from=  0.          to= 22.5063u
```

avg_pow= -7.9270p from= 0.   to= 22.5063u

    ***** job concluded

 *** monte carlo index =   242 ***

rtl= 17.5309u targ= 17.5309u trig= 0.
avg_cur= -13.2471p from= 0.   to= 17.5309u
avg_pow= -9.0877p from= 0.   to= 17.5309u

    ***** job concluded

 *** monte carlo index =   243 ***

rtl= 8.3901u targ= 8.3901u trig= 0.
avg_cur= -17.1841p from= 0.   to= 8.3901u
avg_pow= -12.5476p from= 0.   to= 8.3901u

    ***** job concluded

 *** monte carlo index =   244 ***

rtl= 8.3118u targ= 8.3118u trig= 0.
avg_cur= -17.2298p from= 0.   to= 8.3118u
avg_pow= -12.5891p from= 0.   to= 8.3118u

    ***** job concluded

 *** monte carlo index =   245 ***

rtl= 8.3662u targ= 8.3662u trig= 0.
avg_cur= -17.1981p from= 0.   to= 8.3662u
avg_pow= -12.5602p from= 0.   to= 8.3662u

    ***** job concluded

 *** monte carlo index =   246 ***

rtl= 7.2282u targ= 7.2282u trig= 0.
avg_cur= -17.8985p from= 0.   to= 7.2282u
avg_pow= -13.2013p from= 0.   to= 7.2282u

    ***** job concluded

 *** monte carlo index =   247 ***

rtl= 10.9175u targ= 10.9175u trig= 0.
avg_cur= -15.8415p from= 0.   to= 10.9175u
avg_pow= -11.3405p from= 0.   to= 10.9175u

    ***** job concluded

```
     *** monte carlo  index =            248 ***

rtl=  10.6718u  targ=  10.6718u   trig=   0.
avg_cur= -15.9631p  from=  0.          to=  10.6718u
avg_pow= -11.4487p  from=  0.           to=  10.6718u

        ***** job concluded

   *** monte carlo  index =            249 ***

rtl=  11.1230u  targ=  11.1230u   trig=   0.
avg_cur= -15.7420p  from=  0.          to=  11.1230u
avg_pow= -11.2520p  from=  0.           to=  11.1230u

        ***** job concluded

   *** monte carlo  index =            250 ***

rtl=  10.4431u  targ=  10.4431u   trig=   0.
avg_cur= -16.0780p  from=  0.          to=  10.4431u
avg_pow= -11.5512p  from=  0.           to=  10.4431u

        ***** job concluded

   *** monte carlo  index =            251 ***

rtl=  11.2659u  targ=  11.2659u   trig=   0.
avg_cur= -15.6738p  from=  0.          to=  11.2659u
avg_pow= -11.1915p  from=  0.           to=  11.2659u

        ***** job concluded

   *** monte carlo  index =            252 ***

rtl=   9.8599u  targ=   9.8599u   trig=  0.
avg_cur= -16.3773p  from=  0.          to=   9.8599u
avg_pow= -11.8192p  from=  0.           to=   9.8599u

        ***** job concluded

   *** monte carlo  index =            253 ***

rtl=  55.4823u  targ=  55.4823u   trig=   0.
avg_cur=  -7.2454p  from=  0.          to=  55.4823u
avg_pow=  -4.3514p  from=  0.           to=  55.4823u

        ***** job concluded

   *** monte carlo  index =            254 ***

rtl=   1.6039u  targ=   1.6039u   trig=  0.
avg_cur= -22.6356p  from=  0.          to=   1.6039u
```

avg_pow= -17.7081p from=   0.   to=   1.6039u

       ***** job concluded

  *** monte carlo index =   255 ***

rtl= 21.7925u targ= 21.7925u trig= 0.
avg_cur= -12.0354p from= 0.   to= 21.7925u
avg_pow= -8.0745p from= 0.   to= 21.7925u

       ***** job concluded

  *** monte carlo index =   256 ***

rtl= 17.4729u targ= 17.4729u trig= 0.
avg_cur= -13.2657p from= 0.   to= 17.4729u
avg_pow= -9.1035p from= 0.   to= 17.4729u

       ***** job concluded

  *** monte carlo index =   257 ***

rtl= 34.4059u targ= 34.4059u trig= 0.
avg_cur= -9.5671p from= 0.   to= 34.4059u
avg_pow= -6.0963p from= 0.   to= 34.4059u

       ***** job concluded

  *** monte carlo index =   258 ***

rtl= 16.6554u targ= 16.6554u trig= 0.
avg_cur= -13.5337p from= 0.   to= 16.6554u
avg_pow= -9.3312p from= 0.   to= 16.6554u

       ***** job concluded

  *** monte carlo index =   259 ***

rtl= 15.7554u targ= 15.7554u trig= 0.
avg_cur= -13.8440p from= 0.   to= 15.7554u
avg_pow= -9.5965p from= 0.   to= 15.7554u

       ***** job concluded

  *** monte carlo index =   260 ***

rtl= 18.3849u targ= 18.3849u trig= 0.
avg_cur= -12.9816p from= 0.   to= 18.3849u
avg_pow= -8.8635p from= 0.   to= 18.3849u

       ***** job concluded

```
        *** monte carlo  index =            261 ***

rtl= 22.6646u  targ= 22.6646u   trig=   0.
avg_cur= -11.8173p  from=  0.        to= 22.6646u
avg_pow= -7.8950p  from=  0.         to= 22.6646u

        ***** job concluded

  *** monte carlo  index =            262 ***

rtl=  5.2877u  targ=  5.2877u   trig=   0.
avg_cur= -19.2694p  from=  0.        to=  5.2877u
avg_pow= -14.4760p  from=  0.         to=  5.2877u

        ***** job concluded

  *** monte carlo  index =            263 ***

rtl= 11.6318u  targ= 11.6318u   trig=   0.
avg_cur= -15.5030p  from=  0.        to= 11.6318u
avg_pow= -11.0403p  from=  0.         to= 11.6318u

        ***** job concluded

  *** monte carlo  index =            264 ***

rtl=  3.0966u  targ=  3.0966u   trig=   0.
avg_cur= -21.1638p  from=  0.        to=  3.0966u
avg_pow= -16.2816p  from=  0.         to=  3.0966u

        ***** job concluded

  *** monte carlo  index =            265 ***

rtl=  9.3209u  targ=  9.3209u   trig=   0.
avg_cur= -16.6634p  from=  0.        to=  9.3209u
avg_pow= -12.0763p  from=  0.         to=  9.3209u

        ***** job concluded

  *** monte carlo  index =            266 ***

rtl= 20.0015u  targ= 20.0015u   trig=   0.
avg_cur= -12.5129p  from=  0.        to= 20.0015u
avg_pow= -8.4706p  from=  0.         to= 20.0015u

        ***** job concluded

  *** monte carlo  index =            267 ***

rtl=  4.6113u  targ=  4.6113u   trig=   0.
avg_cur= -19.8029p  from=  0.        to=  4.6113u
```

avg_pow= -14.9791p from= 0.   to= 4.6113u

     ***** job concluded

  *** monte carlo index =   268 ***

rtl= 16.0304u targ= 16.0304u trig= 0.
avg_cur= -13.7474p from= 0.   to= 16.0304u
avg_pow= -9.5137p from= 0.   to= 16.0304u

     ***** job concluded

  *** monte carlo index =   269 ***

rtl= 8.5912u targ= 8.5912u trig= 0.
avg_cur= -17.0684p from= 0.   to= 8.5912u
avg_pow= -12.4424p from= 0.   to= 8.5912u

     ***** job concluded

  *** monte carlo index =   270 ***

rtl= 36.2999u targ= 36.2999u trig= 0.
avg_cur= -9.2909p from= 0.   to= 36.2999u
avg_pow= -5.8824p from= 0.   to= 36.2999u

     ***** job concluded

  *** monte carlo index =   271 ***

rtl= 10.9798u targ= 10.9798u trig= 0.
avg_cur= -15.8112p from= 0.   to= 10.9798u
avg_pow= -11.3135p from= 0.   to= 10.9798u

     ***** job concluded

  *** monte carlo index =   272 ***

rtl= 4.4550u targ= 4.4550u trig= 0.
avg_cur= -19.9328p from= 0.   to= 4.4550u
avg_pow= -15.1024p from= 0.   to= 4.4550u

     ***** job concluded

  *** monte carlo index =   273 ***

rtl= 27.0056u targ= 27.0056u trig= 0.
avg_cur= -10.8566p from= 0.   to= 27.0056u
avg_pow= -7.1149p from= 0.   to= 27.0056u

     ***** job concluded

```
   *** monte carlo  index =            274 ***

rtl=  11.5087u  targ=  11.5087u   trig=   0.
avg_cur= -15.5599p  from=  0.          to=  11.5087u
avg_pow= -11.0906p  from=  0.           to=  11.5087u

       ***** job concluded

  *** monte carlo  index =            275 ***

rtl=  12.0339u  targ=  12.0339u   trig=   0.
avg_cur= -15.3210p  from=  0.          to=  12.0339u
avg_pow= -10.8797p  from=  0.           to=  12.0339u

       ***** job concluded

  *** monte carlo  index =            276 ***

rtl=   7.2070u  targ=   7.2070u  trig=   0.
avg_cur= -17.9125p  from=  0.          to=   7.2070u
avg_pow= -13.2141p  from=  0.           to=   7.2070u

       ***** job concluded

  *** monte carlo  index =            277 ***

rtl=  13.7659u  targ=  13.7659u   trig=   0.
avg_cur= -14.5935p  from=  0.          to=  13.7659u
avg_pow= -10.2433p  from=  0.           to=  13.7659u

       ***** job concluded

  *** monte carlo  index =            278 ***

rtl=   8.2670u  targ=   8.2670u   trig=   0.
avg_cur= -17.2560p  from=  0.          to=   8.2670u
avg_pow= -12.6129p  from=  0.           to=   8.2670u

       ***** job concluded

  *** monte carlo  index =            279 ***

rtl=   4.6712u  targ=   4.6712u   trig=   0.
avg_cur= -19.7540p  from=  0.          to=   4.6712u
avg_pow= -14.9328p  from=  0.           to=   4.6712u

       ***** job concluded

  *** monte carlo  index =            280 ***

rtl=  15.8052u  targ=  15.8052u   trig=   0.
avg_cur= -13.8264p  from=  0.          to=  15.8052u
```

avg_pow= -9.5814p from= 0.   to= 15.8052u

    ***** job concluded

  *** monte carlo index =   281 ***

rtl= 25.6017u targ= 25.6017u trig= 0.
avg_cur= -11.1473p from= 0.   to= 25.6017u
avg_pow= -7.3491p from= 0.   to= 25.6017u

    ***** job concluded

  *** monte carlo index =   282 ***

rtl= 20.1164u targ= 20.1164u trig= 0.
avg_cur= -12.4810p from= 0.   to= 20.1164u
avg_pow= -8.4441p from= 0.   to= 20.1164u

    ***** job concluded

  *** monte carlo index =   283 ***

rtl= 17.5517u targ= 17.5517u trig= 0.
avg_cur= -13.2405p from= 0.   to= 17.5517u
avg_pow= -9.0821p from= 0.   to= 17.5517u

    ***** job concluded

  *** monte carlo index =   284 ***

rtl= 16.6623u targ= 16.6623u trig= 0.
avg_cur= -13.5314p from= 0.   to= 16.6623u
avg_pow= -9.3293p from= 0.   to= 16.6623u

    ***** job concluded

  *** monte carlo index =   285 ***

rtl= 19.7177u targ= 19.7177u trig= 0.
avg_cur= -12.5923p from= 0.   to= 19.7177u
avg_pow= -8.5369p from= 0.   to= 19.7177u

    ***** job concluded

  *** monte carlo index =   286 ***

rtl= 6.8685u targ= 6.8685u trig= 0.
avg_cur= -18.1392p from= 0.   to= 6.8685u
avg_pow= -13.4234p from= 0.   to= 6.8685u

    ***** job concluded

```
      *** monte carlo  index =             287 ***

rtl=  6.3849u  targ=  6.3849u   trig=  0.
avg_cur= -18.4724p  from=  0.         to=  6.3849u
avg_pow= -13.7322p  from=  0.          to=  6.3849u

        ***** job concluded

   *** monte carlo  index =             288 ***

rtl=  13.8830u  targ=  13.8830u   trig=  0.
avg_cur= -14.5470p  from=  0.         to=  13.8830u
avg_pow= -10.2030p  from=  0.          to=  13.8830u

        ***** job concluded

   *** monte carlo  index =             289 ***

rtl=  10.1119u  targ=  10.1119u   trig=  0.
avg_cur= -16.2468p  from=  0.         to=  10.1119u
avg_pow= -11.7022p  from=  0.          to=  10.1119u

        ***** job concluded

   *** monte carlo  index =             290 ***

rtl=  12.2556u  targ=  12.2556u   trig=  0.
avg_cur= -15.2230p  from=  0.         to=  12.2556u
avg_pow= -10.7935p  from=  0.          to=  12.2556u

        ***** job concluded

   *** monte carlo  index =             291 ***

rtl=  6.9423u  targ=  6.9423u   trig=  0.
avg_cur= -18.0891p  from=  0.         to=  6.9423u
avg_pow= -13.3771p  from=  0.          to=  6.9423u

        ***** job concluded

   *** monte carlo  index =             292 ***

rtl=  8.8854u  targ=  8.8854u   trig=  0.
avg_cur= -16.9024p  from=  0.         to=  8.8854u
avg_pow= -12.2921p  from=  0.          to=  8.8854u

        ***** job concluded

   *** monte carlo  index =             293 ***

rtl=  4.2462u  targ=  4.2462u   trig=  0.
avg_cur= -20.1110p  from=  0.         to=  4.2462u
```

avg_pow= -15.2720p from= 0.   to= 4.2462u

    ***** job concluded

  *** monte carlo index =   294 ***

rtl= 9.5620u targ= 9.5620u   trig= 0.
avg_cur= -16.5342p from= 0.   to= 9.5620u
avg_pow= -11.9600p from= 0.   to= 9.5620u

    ***** job concluded

  *** monte carlo index =   295 ***

rtl= 11.2535u targ= 11.2535u   trig= 0.
avg_cur= -15.6797p from= 0.   to= 11.2535u
avg_pow= -11.1967p from= 0.   to= 11.2535u

    ***** job concluded

  *** monte carlo index =   296 ***

rtl= 12.3839u targ= 12.3839u   trig= 0.
avg_cur= -15.1671p from= 0.   to= 12.3839u
avg_pow= -10.7444p from= 0.   to= 12.3839u

    ***** job concluded

  *** monte carlo index =   297 ***

rtl= 4.7723u targ= 4.7723u   trig= 0.
avg_cur= -19.6721p from= 0.   to= 4.7723u
avg_pow= -14.8553p from= 0.   to= 4.7723u

    ***** job concluded

  *** monte carlo index =   298 ***

rtl= 22.4670u targ= 22.4670u   trig= 0.
avg_cur= -11.8659p from= 0.   to= 22.4670u
avg_pow= -7.9349p from= 0.   to= 22.4670u

    ***** job concluded

  *** monte carlo index =   299 ***

rtl= 11.2822u targ= 11.2822u   trig= 0.
avg_cur= -15.6660p from= 0.   to= 11.2822u
avg_pow= -11.1846p from= 0.   to= 11.2822u

    ***** job concluded

```
*** monte carlo  index =            300 ***

rtl=  9.5786u  targ=  9.5786u  trig=  0.
avg_cur= -16.5254p  from=  0.        to=  9.5786u
avg_pow= -11.9521p  from=  0.         to=  9.5786u

    ***** job concluded

*** monte carlo  index =            301 ***

rtl=  16.8807u  targ= 16.8807u  trig=  0.
avg_cur= -13.4586p  from=  0.        to=  16.8807u
avg_pow=  -9.2673p  from=  0.         to=  16.8807u

    ***** job concluded

*** monte carlo  index =            302 ***

rtl=  12.7268u  targ= 12.7268u  trig=  0.
avg_cur= -15.0199p  from=  0.        to=  12.7268u
avg_pow= -10.6153p  from=  0.         to=  12.7268u

    ***** job concluded

*** monte carlo  index =            303 ***

rtl=  6.6020u  targ=  6.6020u  trig=  0.
avg_cur= -18.3218p  from=  0.        to=  6.6020u
avg_pow= -13.5925p  from=  0.         to=  6.6020u

    ***** job concluded

*** monte carlo  index =            304 ***

rtl=  11.9251u  targ= 11.9251u  trig=  0.
avg_cur= -15.3697p  from=  0.        to=  11.9251u
avg_pow= -10.9227p  from=  0.         to=  11.9251u

    ***** job concluded

*** monte carlo  index =            305 ***

rtl=  16.8164u  targ= 16.8164u  trig=  0.
avg_cur= -13.4799p  from=  0.        to=  16.8164u
avg_pow=  -9.2854p  from=  0.         to=  16.8164u

    ***** job concluded

*** monte carlo  index =            306 ***

rtl=  6.8786u  targ=  6.8786u  trig=  0.
avg_cur= -18.1323p  from=  0.        to=  6.8786u
```

avg_pow= -13.4171p from= 0.   to= 6.8786u

     ***** job concluded

  *** monte carlo index =   307 ***

rtl= 16.2365u targ= 16.2365u trig= 0.
avg_cur= -13.6761p from= 0.   to= 16.2365u
avg_pow= -9.4527p from= 0.   to= 16.2365u

     ***** job concluded

  *** monte carlo index =   308 ***

rtl= 14.0159u targ= 14.0159u trig= 0.
avg_cur= -14.4947p from= 0.   to= 14.0159u
avg_pow= -10.1576p from= 0.   to= 14.0159u

     ***** job concluded

  *** monte carlo index =   309 ***

rtl= 24.1430u targ= 24.1430u trig= 0.
avg_cur= -11.4683p from= 0.   to= 24.1430u
avg_pow= -7.6096p from= 0.   to= 24.1430u

     ***** job concluded

  *** monte carlo index =   310 ***

rtl= 8.2321u targ= 8.2321u trig= 0.
avg_cur= -17.2765p from= 0.   to= 8.2321u
avg_pow= -12.6316p from= 0.   to= 8.2321u

     ***** job concluded

  *** monte carlo index =   311 ***

rtl= 11.5894u targ= 11.5894u trig= 0.
avg_cur= -15.5225p from= 0.   to= 11.5894u
avg_pow= -11.0575p from= 0.   to= 11.5894u

     ***** job concluded

  *** monte carlo index =   312 ***

rtl= 16.5364u targ= 16.5364u trig= 0.
avg_cur= -13.5738p from= 0.   to= 16.5364u
avg_pow= -9.3654p from= 0.   to= 16.5364u

     ***** job concluded

*** monte carlo index =   313 ***

rtl= 20.9002u targ= 20.9002u   trig=   0.
avg_cur= -12.2683p from= 0.   to= 20.9002u
avg_pow= -8.2673p from= 0.   to= 20.9002u

        ***** job concluded

  *** monte carlo index =   314 ***

rtl=   3.6978u targ=   3.6978u   trig=   0.
avg_cur= -20.6064p from= 0.   to=   3.6978u
avg_pow= -15.7462p from= 0.   to=   3.6978u

        ***** job concluded

  *** monte carlo index =   315 ***

rtl= 28.1127u targ= 28.1127u   trig=   0.
avg_cur= -10.6387p from= 0.   to= 28.1127u
avg_pow= -6.9404p from= 0.   to= 28.1127u

        ***** job concluded

  *** monte carlo index =   316 ***

rtl= 11.8274u targ= 11.8274u   trig=   0.
avg_cur= -15.4137p from= 0.   to= 11.8274u
avg_pow= -10.9615p from= 0.   to= 11.8274u

        ***** job concluded

  *** monte carlo index =   317 ***

rtl=   4.7997u targ=   4.7997u   trig=   0.
avg_cur= -19.6501p from= 0.   to=   4.7997u
avg_pow= -14.8345p from= 0.   to=   4.7997u

        ***** job concluded

  *** monte carlo index =   318 ***

rtl= 14.8103u targ= 14.8103u   trig=   0.
avg_cur= -14.1894p from= 0.   to= 14.8103u
avg_pow= -9.8935p from= 0.   to= 14.8103u

        ***** job concluded

  *** monte carlo index =   319 ***

rtl= 7.2441u targ= 7.2441u   trig=   0.
avg_cur= -17.8882p from= 0.   to=   7.2441u

avg_pow= -13.1917p from= 0.   to= 7.2441u

      ***** job concluded

  *** monte carlo index =   320 ***

rtl= 16.2433u targ= 16.2433u trig= 0.
avg_cur= -13.6737p from= 0.   to= 16.2433u
avg_pow= -9.4507p from= 0.   to= 16.2433u

      ***** job concluded

  *** monte carlo index =   321 ***

rtl= 15.7421u targ= 15.7421u trig= 0.
avg_cur= -13.8487p from= 0.   to= 15.7421u
avg_pow= -9.6005p from= 0.   to= 15.7421u

      ***** job concluded

  *** monte carlo index =   322 ***

rtl= 31.1900u targ= 31.1900u trig= 0.
avg_cur= -10.0821p from= 0.   to= 31.1900u
avg_pow= -6.4991p from= 0.   to= 31.1900u

      ***** job concluded

  *** monte carlo index =   323 ***

rtl= 20.6219u targ= 20.6219u trig= 0.
avg_cur= -12.3430p from= 0.   to= 20.6219u
avg_pow= -8.3292p from= 0.   to= 20.6219u

      ***** job concluded

  *** monte carlo index =   324 ***

rtl= 6.8717u targ= 6.8717u trig= 0.
avg_cur= -18.1370p from= 0.   to= 6.8717u
avg_pow= -13.4214p from= 0.   to= 6.8717u

      ***** job concluded

  *** monte carlo index =   325 ***

rtl= 11.7811u targ= 11.7811u trig= 0.
avg_cur= -15.4347p from= 0.   to= 11.7811u
avg_pow= -10.9800p from= 0.   to= 11.7811u

      ***** job concluded

```
    *** monte carlo  index =              326 ***

rtl=  14.7639u  targ=  14.7639u   trig=  0.
avg_cur= -14.2069p  from=  0.          to=  14.7639u
avg_pow=  -9.9086p  from=  0.           to=  14.7639u

       ***** job concluded

   *** monte carlo  index =              327 ***

rtl=   9.3145u  targ=   9.3145u   trig=  0.
avg_cur= -16.6669p  from=  0.          to=   9.3145u
avg_pow= -12.0795p  from=  0.           to=   9.3145u

       ***** job concluded

   *** monte carlo  index =              328 ***

rtl=  33.3460u  targ=  33.3460u   trig=  0.
avg_cur=  -9.7300p  from=  0.          to=  33.3460u
avg_pow=  -6.2231p  from=  0.           to=  33.3460u

       ***** job concluded

   *** monte carlo  index =              329 ***

rtl=  12.5144u  targ=  12.5144u   trig=  0.
avg_cur= -15.1107p  from=  0.          to=  12.5144u
avg_pow= -10.6949p  from=  0.           to=  12.5144u

       ***** job concluded

   *** monte carlo  index =              330 ***

rtl=  19.6479u  targ=  19.6479u   trig=  0.
avg_cur= -12.6120p  from=  0.          to=  19.6479u
avg_pow=  -8.5534p  from=  0.           to=  19.6479u

       ***** job concluded

   *** monte carlo  index =              331 ***

rtl=   9.3718u  targ=   9.3718u   trig=  0.
avg_cur= -16.6360p  from=  0.          to=   9.3718u
avg_pow= -12.0516p  from=  0.           to=   9.3718u

       ***** job concluded

   *** monte carlo  index =              332 ***

rtl=  17.2980u  targ=  17.2980u   trig=  0.
avg_cur= -13.3220p  from=  0.          to=  17.2980u
```

avg_pow= -9.1512p from= 0.   to= 17.2980u

     ***** job concluded

 *** monte carlo index =   333 ***

rtl= 18.5958u targ= 18.5958u trig= 0.
avg_cur= -12.9181p from= 0.   to= 18.5958u
avg_pow= -8.8100p from= 0.   to= 18.5958u

     ***** job concluded

 *** monte carlo index =   334 ***

rtl= 13.3241u targ= 13.3241u trig= 0.
avg_cur= -14.7715p from= 0.   to= 13.3241u
avg_pow= -10.3982p from= 0.   to= 13.3241u

     ***** job concluded

 *** monte carlo index =   335 ***

rtl= 8.6136u targ= 8.6136u trig= 0.
avg_cur= -17.0556p from= 0.   to=   8.6136u
avg_pow= -12.4308p from= 0.   to=   8.6136u

     ***** job concluded

 *** monte carlo index =   336 ***

rtl= 15.5090u targ= 15.5090u trig= 0.
avg_cur= -13.9320p from= 0.   to= 15.5090u
avg_pow= -9.6720p from= 0.   to= 15.5090u

     ***** job concluded

 *** monte carlo index =   337 ***

rtl= 18.4273u targ= 18.4273u trig= 0.
avg_cur= -12.9688p from= 0.   to= 18.4273u
avg_pow= -8.8527p from= 0.   to= 18.4273u

     ***** job concluded

 *** monte carlo index =   338 ***

rtl= 14.9250u targ= 14.9250u trig= 0.
avg_cur= -14.1463p from= 0.   to= 14.9250u
avg_pow= -9.8564p from= 0.   to= 14.9250u

     ***** job concluded

```
     *** monte carlo  index =              339 ***

rtl=  8.1983u  targ=  8.1983u  trig=  0.
avg_cur= -17.2964p  from=  0.        to=  8.1983u
avg_pow= -12.6497p  from=  0.         to=  8.1983u

        ***** job concluded

   *** monte carlo  index =              340 ***

rtl=  4.3031u  targ=  4.3031u  trig=  0.
avg_cur= -20.0619p  from=  0.        to=  4.3031u
avg_pow= -15.2251p  from=  0.         to=  4.3031u

        ***** job concluded

   *** monte carlo  index =              341 ***

rtl=  16.1750u  targ=  16.1750u  trig=  0.
avg_cur= -13.6972p  from=  0.        to=  16.1750u
avg_pow=  -9.4708p  from=  0.         to=  16.1750u

        ***** job concluded

   *** monte carlo  index =              342 ***

rtl=  7.0883u  targ=  7.0883u  trig=  0.
avg_cur= -17.9909p  from=  0.        to=  7.0883u
avg_pow= -13.2864p  from=  0.         to=  7.0883u

        ***** job concluded

   *** monte carlo  index =              343 ***

rtl=  17.5740u  targ=  17.5740u  trig=  0.
avg_cur= -13.2334p  from=  0.        to=  17.5740u
avg_pow=  -9.0761p  from=  0.         to=  17.5740u

        ***** job concluded

   *** monte carlo  index =              344 ***

rtl=  13.3221u  targ=  13.3221u  trig=  0.
avg_cur= -14.7723p  from=  0.        to=  13.3221u
avg_pow= -10.3990p  from=  0.         to=  13.3221u

        ***** job concluded

   *** monte carlo  index =              345 ***

rtl=  20.7504u  targ=  20.7504u  trig=  0.
avg_cur= -12.3084p  from=  0.        to=  20.7504u
```

avg_pow= -8.3005p from= 0.   to= 20.7504u

     ***** job concluded

  *** monte carlo index =   346 ***

rtl= 9.4006u targ= 9.4006u   trig= 0.
avg_cur= -16.6205p from= 0.   to= 9.4006u
avg_pow= -12.0377p from= 0.   to= 9.4006u

     ***** job concluded

  *** monte carlo index =   347 ***

rtl= 15.1869u targ= 15.1869u   trig= 0.
avg_cur= -14.0492p from= 0.   to= 15.1869u
avg_pow= -9.7727p from= 0.   to= 15.1869u

     ***** job concluded

  *** monte carlo index =   348 ***

rtl= 11.7561u targ= 11.7561u   trig= 0.
avg_cur= -15.4461p from= 0.   to= 11.7561u
avg_pow= -10.9901p from= 0.   to= 11.7561u

     ***** job concluded

  *** monte carlo index =   349 ***

rtl= 11.0579u targ= 11.0579u   trig= 0.
avg_cur= -15.7733p from= 0.   to= 11.0579u
avg_pow= -11.2798p from= 0.   to= 11.0579u

     ***** job concluded

  *** monte carlo index =   350 ***

rtl= 11.7929u targ= 11.7929u   trig= 0.
avg_cur= -15.4294p from= 0.   to= 11.7929u
avg_pow= -10.9753p from= 0.   to= 11.7929u

     ***** job concluded

  *** monte carlo index =   351 ***

rtl= 13.5475u targ= 13.5475u   trig= 0.
avg_cur= -14.6809p from= 0.   to= 13.5475u
avg_pow= -10.3193p from= 0.   to= 13.5475u

     ***** job concluded

```
    *** monte carlo  index =              352 ***

rtl= 14.3795u  targ= 14.3795u   trig=  0.
avg_cur= -14.3534p  from=  0.         to= 14.3795u
avg_pow= -10.0352p  from=  0.          to=  14.3795u

        ***** job concluded

  *** monte carlo  index =              353 ***

rtl= 21.3652u  targ= 21.3652u   trig=  0.
avg_cur= -12.1457p  from=  0.         to= 21.3652u
avg_pow=  -8.1657p  from=  0.          to=  21.3652u

        ***** job concluded

  *** monte carlo  index =              354 ***

rtl=  6.3359u  targ=  6.3359u  trig=  0.
avg_cur= -18.5067p  from=  0.         to=  6.3359u
avg_pow= -13.7640p  from=  0.          to=  6.3359u

        ***** job concluded

  *** monte carlo  index =              355 ***

rtl= 11.4135u  targ= 11.4135u   trig=  0.
avg_cur= -15.6043p  from=  0.         to= 11.4135u
avg_pow= -11.1299p  from=  0.          to=  11.4135u

        ***** job concluded

  *** monte carlo  index =              356 ***

rtl= 14.8483u  targ= 14.8483u   trig=  0.
avg_cur= -14.1751p  from=  0.         to= 14.8483u
avg_pow=  -9.8812p  from=  0.          to=  14.8483u

        ***** job concluded

  *** monte carlo  index =              357 ***

rtl= 16.3525u  targ= 16.3525u   trig=  0.
avg_cur= -13.6363p  from=  0.         to= 16.3525u
avg_pow=  -9.4187p  from=  0.          to=  16.3525u

        ***** job concluded

  *** monte carlo  index =              358 ***

rtl= 14.6285u  targ= 14.6285u   trig=  0.
avg_cur= -14.2582p  from=  0.         to= 14.6285u
```

avg_pow= -9.9529p from= 0.   to= 14.6285u

      ***** job concluded

  *** monte carlo index =   359 ***

rtl= 10.1323u targ= 10.1323u trig= 0.
avg_cur= -16.2363p from= 0.   to= 10.1323u
avg_pow= -11.6928p from= 0.   to= 10.1323u

      ***** job concluded

  *** monte carlo index =   360 ***

rtl= 12.6364u targ= 12.6364u trig= 0.
avg_cur= -15.0584p from= 0.   to= 12.6364u
avg_pow= -10.6490p from= 0.   to= 12.6364u

      ***** job concluded

  *** monte carlo index =   361 ***

rtl= 10.3886u targ= 10.3886u trig= 0.
avg_cur= -16.1055p from= 0.   to= 10.3886u
avg_pow= -11.5758p from= 0.   to= 10.3886u

      ***** job concluded

  *** monte carlo index =   362 ***

rtl= 17.1393u targ= 17.1393u trig= 0.
avg_cur= -13.3736p from= 0.   to= 17.1393u
avg_pow= -9.1950p from= 0.   to= 17.1393u

      ***** job concluded

  *** monte carlo index =   363 ***

rtl= 12.6394u targ= 12.6394u trig= 0.
avg_cur= -15.0571p from= 0.   to= 12.6394u
avg_pow= -10.6479p from= 0.   to= 12.6394u

      ***** job concluded

  *** monte carlo index =   364 ***

rtl= 11.2520u targ= 11.2520u trig= 0.
avg_cur= -15.6804p from= 0.   to= 11.2520u
avg_pow= -11.1974p from= 0.   to= 11.2520u

      ***** job concluded

```
     *** monte carlo  index =              365 ***


rtl= 34.8756u  targ= 34.8756u   trig=   0.
avg_cur= -9.4970p  from=  0.         to=  34.8756u
avg_pow= -6.0418p  from=  0.          to=  34.8756u


        ***** job concluded


  *** monte carlo  index =              366 ***


rtl= 12.1484u  targ= 12.1484u   trig=   0.
avg_cur= -15.2702p  from=  0.         to=  12.1484u
avg_pow= -10.8350p  from=  0.          to=  12.1484u


        ***** job concluded


  *** monte carlo  index =              367 ***


rtl=  7.8221u  targ=  7.8221u   trig=   0.
avg_cur= -17.5227p  from=  0.         to=   7.8221u
avg_pow= -12.8563p  from=  0.          to=   7.8221u


        ***** job concluded


  *** monte carlo  index =              368 ***


rtl= 18.7256u  targ= 18.7256u   trig=   0.
avg_cur= -12.8794p  from=  0.         to=  18.7256u
avg_pow= -8.7774p  from=  0.          to=  18.7256u


        ***** job concluded


  *** monte carlo  index =              369 ***


rtl=  7.3758u  targ=  7.3758u   trig=   0.
avg_cur= -17.8028p  from=  0.         to=   7.3758u
avg_pow= -13.1131p  from=  0.          to=   7.3758u


        ***** job concluded


  *** monte carlo  index =              370 ***


rtl= 25.3491u  targ= 25.3491u   trig=   0.
avg_cur= -11.2014p  from=  0.         to=  25.3491u
avg_pow= -7.3929p  from=  0.          to=  25.3491u


        ***** job concluded


  *** monte carlo  index =              371 ***


rtl= 18.1258u  targ= 18.1258u   trig=   0.
avg_cur= -13.0607p  from=  0.         to=  18.1258u
```

avg_pow= -8.9302p from= 0.   to= 18.1258u

    ***** job concluded

  *** monte carlo index =   372 ***

rtl= 6.2636u targ= 6.2636u trig= 0.
avg_cur= -18.5575p from= 0.   to= 6.2636u
avg_pow= -13.8112p from= 0.   to= 6.2636u

    ***** job concluded

  *** monte carlo index =   373 ***

rtl= 1.7939u targ= 1.7939u trig= 0.
avg_cur= -22.4339p from= 0.   to= 1.7939u
avg_pow= -17.5107p from= 0.   to= 1.7939u

    ***** job concluded

  *** monte carlo index =   374 ***

rtl= 20.7702u targ= 20.7702u trig= 0.
avg_cur= -12.3031p from= 0.   to= 20.7702u
avg_pow= -8.2961p from= 0.   to= 20.7702u

    ***** job concluded

  *** monte carlo index =   375 ***

rtl= 12.1921u targ= 12.1921u trig= 0.
avg_cur= -15.2509p from= 0.   to= 12.1921u
avg_pow= -10.8181p from= 0.   to= 12.1921u

    ***** job concluded

  *** monte carlo index =   376 ***

rtl= 17.7758u targ= 17.7758u trig= 0.
avg_cur= -13.1696p from= 0.   to= 17.7758u
avg_pow= -9.0221p from= 0.   to= 17.7758u

    ***** job concluded

  *** monte carlo index =   377 ***

rtl= 9.2057u targ= 9.2057u trig= 0.
avg_cur= -16.7260p from= 0.   to= 9.2057u
avg_pow= -12.1327p from= 0.   to= 9.2057u

    ***** job concluded

```
   *** monte carlo  index =            378 ***

rtl= 16.5974u  targ= 16.5974u   trig=  0.
avg_cur= -13.5532p  from=  0.          to= 16.5974u
avg_pow=  -9.3478p  from=  0.          to= 16.5974u

      ***** job concluded

  *** monte carlo  index =            379 ***

rtl= 14.3115u  targ= 14.3115u   trig=  0.
avg_cur= -14.3797p  from=  0.          to= 14.3115u
avg_pow= -10.0579p  from=  0.          to= 14.3115u

      ***** job concluded

  *** monte carlo  index =            380 ***

rtl=  6.1863u  targ=  6.1863u   trig=  0.
avg_cur= -18.6120p  from=  0.          to=  6.1863u
avg_pow= -13.8619p  from=  0.          to=  6.1863u

      ***** job concluded

  *** monte carlo  index =            381 ***

rtl=  6.9474u  targ=  6.9474u   trig=  0.
avg_cur= -18.0856p  from=  0.          to=  6.9474u
avg_pow= -13.3739p  from=  0.          to=  6.9474u

      ***** job concluded

  *** monte carlo  index =            382 ***

rtl= 24.2932u  targ= 24.2932u   trig=  0.
avg_cur= -11.4343p  from=  0.          to= 24.2932u
avg_pow=  -7.5819p  from=  0.          to= 24.2932u

      ***** job concluded

  *** monte carlo  index =            383 ***

rtl= 11.7425u  targ= 11.7425u   trig=  0.
avg_cur= -15.4523p  from=  0.          to= 11.7425u
avg_pow= -10.9955p  from=  0.          to= 11.7425u

      ***** job concluded

  *** monte carlo  index =            384 ***

rtl= 11.8587u  targ= 11.8587u   trig=  0.
avg_cur= -15.3996p  from=  0.          to= 11.8587u
```

avg_pow= -10.9490p from=   0.   to= 11.8587u

     ***** job concluded

  *** monte carlo index =   385 ***

rtl= 9.4591u targ= 9.4591u   trig=   0.
avg_cur= -16.5891p from=   0.   to=   9.4591u
avg_pow= -12.0094p from=   0.   to=   9.4591u

     ***** job concluded

  *** monte carlo index =   386 ***

rtl= 7.8524u targ= 7.8524u   trig=   0.
avg_cur= -17.5042p from=   0.   to=   7.8524u
avg_pow= -12.8393p from=   0.   to=   7.8524u

     ***** job concluded

  *** monte carlo index =   387 ***

rtl= 6.7044u targ= 6.7044u   trig=   0.
avg_cur= -18.2513p from=   0.   to=   6.7044u
avg_pow= -13.5272p from=   0.   to=   6.7044u

     ***** job concluded

  *** monte carlo index =   388 ***

rtl= 9.9638u targ= 9.9638u   trig=   0.
avg_cur= -16.3232p from=   0.   to=   9.9638u
avg_pow= -11.7706p from=   0.   to=   9.9638u

     ***** job concluded

  *** monte carlo index =   389 ***

rtl= 9.8532u targ= 9.8532u   trig=   0.
avg_cur= -16.3808p from=   0.   to=   9.8532u
avg_pow= -11.8223p from=   0.   to=   9.8532u

     ***** job concluded

  *** monte carlo index =   390 ***

rtl= 19.5210u targ= 19.5210u   trig=   0.
avg_cur= -12.6480p from=   0.   to= 19.5210u
avg_pow= -8.5835p from=   0.   to= 19.5210u

     ***** job concluded

```
*** monte carlo  index =            391 ***

rtl= 12.8193u  targ= 12.8193u  trig=  0.
avg_cur= -14.9808p  from=  0.        to= 12.8193u
avg_pow= -10.5811p  from=  0.         to= 12.8193u

      ***** job concluded

 *** monte carlo  index =            392 ***

rtl= 11.0917u  targ= 11.0917u  trig=  0.
avg_cur= -15.7570p  from=  0.        to= 11.0917u
avg_pow= -11.2653p  from=  0.         to= 11.0917u

      ***** job concluded

 *** monte carlo  index =            393 ***

rtl= 13.7901u  targ= 13.7901u  trig=  0.
avg_cur= -14.5838p  from=  0.        to= 13.7901u
avg_pow= -10.2350p  from=  0.         to= 13.7901u

      ***** job concluded

 *** monte carlo  index =            394 ***

rtl= 28.6807u  targ= 28.6807u  trig=  0.
avg_cur= -10.5308p  from=  0.        to= 28.6807u
avg_pow=  -6.8544p  from=  0.         to= 28.6807u

      ***** job concluded

 *** monte carlo  index =            395 ***

rtl= 19.0222u  targ= 19.0222u  trig=  0.
avg_cur= -12.7920p  from=  0.        to= 19.0222u
avg_pow=  -8.7040p  from=  0.         to= 19.0222u

      ***** job concluded

 *** monte carlo  index =            396 ***

rtl= 23.0737u  targ= 23.0737u  trig=  0.
avg_cur= -11.7181p  from=  0.        to= 23.0737u
avg_pow=  -7.8137p  from=  0.         to= 23.0737u

      ***** job concluded

 *** monte carlo  index =            397 ***

rtl= 17.1713u  targ= 17.1713u  trig=  0.
avg_cur= -13.3631p  from=  0.        to= 17.1713u
```

avg_pow= -9.1861p from= 0.   to= 17.1713u

     ***** job concluded

  *** monte carlo index =   398 ***

rtl= 20.5694u targ= 20.5694u trig= 0.
avg_cur= -12.3572p from= 0.   to= 20.5694u
avg_pow= -8.3410p from= 0.   to= 20.5694u

     ***** job concluded

  *** monte carlo index =   399 ***

rtl= 10.4455u targ= 10.4455u trig= 0.
avg_cur= -16.0767p from= 0.   to= 10.4455u
avg_pow= -11.5502p from= 0.   to= 10.4455u

     ***** job concluded

  *** monte carlo index =   400 ***

rtl= 6.7543u targ= 6.7543u trig= 0.
avg_cur= -18.2171p from= 0.   to= 6.7543u
avg_pow= -13.4955p from= 0.   to= 6.7543u

     ***** job concluded

  *** monte carlo index =   401 ***

rtl= 8.9401u targ= 8.9401u trig= 0.
avg_cur= -16.8720p from= 0.   to= 8.9401u
avg_pow= -12.2646p from= 0.   to= 8.9401u

     ***** job concluded

  *** monte carlo index =   402 ***

rtl= 18.8123u targ= 18.8123u trig= 0.
avg_cur= -12.8537p from= 0.   to= 18.8123u
avg_pow= -8.7559p from= 0.   to= 18.8123u

     ***** job concluded

  *** monte carlo index =   403 ***

rtl= 15.0173u targ= 15.0173u trig= 0.
avg_cur= -14.1119p from= 0.   to= 15.0173u
avg_pow= -9.8267p from= 0.   to= 15.0173u

     ***** job concluded

```
       *** monte carlo  index =              404 ***

rtl= 33.1558u  targ= 33.1558u   trig=  0.
avg_cur= -9.7599p  from=  0.          to= 33.1558u
avg_pow= -6.2464p  from=  0.          to= 33.1558u

        ***** job concluded

  *** monte carlo  index =              405 ***

rtl= 15.6570u  targ= 15.6570u   trig=  0.
avg_cur= -13.8790p  from=  0.         to= 15.6570u
avg_pow= -9.6265p  from=  0.         to= 15.6570u

        ***** job concluded

  *** monte carlo  index =              406 ***

rtl= 17.7618u  targ= 17.7618u   trig=  0.
avg_cur= -13.1740p  from=  0.        to= 17.7618u
avg_pow= -9.0258p  from=  0.        to= 17.7618u

        ***** job concluded

  *** monte carlo  index =              407 ***

rtl= 17.8843u  targ= 17.8843u   trig=  0.
avg_cur= -13.1356p  from=  0.        to= 17.8843u
avg_pow= -8.9934p  from=  0.         to= 17.8843u

        ***** job concluded

  *** monte carlo  index =              408 ***

rtl= 14.6854u  targ= 14.6854u   trig=  0.
avg_cur= -14.2366p  from=  0.        to= 14.6854u
avg_pow= -9.9342p  from=  0.        to= 14.6854u

        ***** job concluded

  *** monte carlo  index =              409 ***

rtl=  9.1851u  targ=  9.1851u   trig=  0.
avg_cur= -16.7372p  from=  0.        to=  9.1851u
avg_pow= -12.1428p  from=  0.         to=  9.1851u

        ***** job concluded

  *** monte carlo  index =              410 ***

rtl=  7.0563u  targ=  7.0563u   trig=  0.
avg_cur= -18.0123p  from=  0.        to=  7.0563u
```

avg_pow= -13.3062p from= 0.   to=   7.0563u

     ***** job concluded

  *** monte carlo index =   411 ***

rtl= 18.4000u targ= 18.4000u   trig= 0.
avg_cur= -12.9771p from= 0.   to= 18.4000u
avg_pow= -8.8596p from= 0.   to= 18.4000u

     ***** job concluded

  *** monte carlo index =   412 ***

rtl= 13.2324u targ= 13.2324u   trig= 0.
avg_cur= -14.8090p from= 0.   to= 13.2324u
avg_pow= -10.4310p from= 0.   to= 13.2324u

     ***** job concluded

  *** monte carlo index =   413 ***

rtl= 9.5410u targ= 9.5410u   trig= 0.
avg_cur= -16.5454p from= 0.   to= 9.5410u
avg_pow= -11.9701p from= 0.   to= 9.5410u

     ***** job concluded

  *** monte carlo index =   414 ***

rtl= 6.5164u targ= 6.5164u   trig= 0.
avg_cur= -18.3809p from= 0.   to= 6.5164u
avg_pow= -13.6473p from= 0.   to= 6.5164u

     ***** job concluded

  *** monte carlo index =   415 ***

rtl= 11.3230u targ= 11.3230u   trig= 0.
avg_cur= -15.6468p from= 0.   to= 11.3230u
avg_pow= -11.1676p from= 0.   to= 11.3230u

     ***** job concluded

  *** monte carlo index =   416 ***

rtl= 4.0576u targ= 4.0576u   trig= 0.
avg_cur= -20.2775p from= 0.   to= 4.0576u
avg_pow= -15.4309p from= 0.   to= 4.0576u

     ***** job concluded

```
    *** monte carlo  index =            417 ***

rtl=  6.7527u  targ=  6.7527u  trig=  0.
avg_cur= -18.2182p  from=  0.        to=  6.7527u
avg_pow= -13.4965p  from=  0.        to=  6.7527u

      ***** job concluded

  *** monte carlo  index =            418 ***

rtl=  8.0488u  targ=  8.0488u  trig=  0.
avg_cur= -17.3854p  from=  0.        to=  8.0488u
avg_pow= -12.7309p  from=  0.        to=  8.0488u

      ***** job concluded

  *** monte carlo  index =            419 ***

rtl=  5.6361u  targ=  5.6361u  trig=  0.
avg_cur= -19.0088p  from=  0.        to=  5.6361u
avg_pow= -14.2319p  from=  0.        to=  5.6361u

      ***** job concluded

  *** monte carlo  index =            420 ***

rtl=  19.0058u  targ=  19.0058u  trig=  0.
avg_cur= -12.7968p  from=  0.        to=  19.0058u
avg_pow=  -8.7081p  from=  0.        to=  19.0058u

      ***** job concluded

  *** monte carlo  index =            421 ***

rtl=  6.1701u  targ=  6.1701u  trig=  0.
avg_cur= -18.6235p  from=  0.        to=  6.1701u
avg_pow= -13.8726p  from=  0.        to=  6.1701u

      ***** job concluded

  *** monte carlo  index =            422 ***

rtl=  11.4345u  targ=  11.4345u  trig=  0.
avg_cur= -15.5945p  from=  0.        to=  11.4345u
avg_pow= -11.1212p  from=  0.        to=  11.4345u

      ***** job concluded

  *** monte carlo  index =            423 ***

rtl=  5.5488u  targ=  5.5488u  trig=  0.
avg_cur= -19.0734p  from=  0.        to=  5.5488u
```

avg_pow= -14.2923p from= 0.   to= 5.5488u

      ***** job concluded

  *** monte carlo index =   424 ***

rtl= 12.8329u targ= 12.8329u trig= 0.
avg_cur= -14.9751p from= 0.   to= 12.8329u
avg_pow= -10.5761p from= 0.   to= 12.8329u

      ***** job concluded

  *** monte carlo index =   425 ***

rtl= 17.8528u targ= 17.8528u trig= 0.
avg_cur= -13.1454p from= 0.   to= 17.8528u
avg_pow= -9.0017p from= 0.   to= 17.8528u

      ***** job concluded

  *** monte carlo index =   426 ***

rtl= 10.4668u targ= 10.4668u trig= 0.
avg_cur= -16.0660p from= 0.   to= 10.4668u
avg_pow= -11.5405p from= 0.   to= 10.4668u

      ***** job concluded

  *** monte carlo index =   427 ***

rtl= 18.1011u targ= 18.1011u trig= 0.
avg_cur= -13.0684p from= 0.   to= 18.1011u
avg_pow= -8.9366p from= 0.   to= 18.1011u

      ***** job concluded

  *** monte carlo index =   428 ***

rtl= 7.3443u targ= 7.3443u trig= 0.
avg_cur= -17.8231p from= 0.   to= 7.3443u
avg_pow= -13.1318p from= 0.   to= 7.3443u

      ***** job concluded

  *** monte carlo index =   429 ***

rtl= 9.6141u targ= 9.6141u trig= 0.
avg_cur= -16.5066p from= 0.   to= 9.6141u
avg_pow= -11.9352p from= 0.   to= 9.6141u

      ***** job concluded

```
       *** monte carlo  index =              430 ***

rtl=  19.5085u  targ=  19.5085u   trig=   0.
avg_cur= -12.6516p  from=  0.           to=  19.5085u
avg_pow=  -8.5865p  from=  0.            to=  19.5085u

          ***** job concluded

   *** monte carlo  index =              431 ***

rtl=  10.1658u  targ=  10.1658u   trig=   0.
avg_cur= -16.2191p  from=  0.           to=  10.1658u
avg_pow= -11.6774p  from=  0.            to=  10.1658u

          ***** job concluded

   *** monte carlo  index =              432 ***

rtl=  27.6999u  targ=  27.6999u   trig=   0.
avg_cur= -10.7188p  from=  0.           to=  27.6999u
avg_pow=  -7.0044p  from=  0.            to=  27.6999u

          ***** job concluded

   *** monte carlo  index =              433 ***

rtl=  20.0868u  targ=  20.0868u   trig=   0.
avg_cur= -12.4892p  from=  0.           to=  20.0868u
avg_pow=  -8.4509p  from=  0.            to=  20.0868u

          ***** job concluded

   *** monte carlo  index =              434 ***

rtl=  26.1737u  targ=  26.1737u   trig=   0.
avg_cur= -11.0269p  from=  0.           to=  26.1737u
avg_pow=  -7.2519p  from=  0.            to=  26.1737u

          ***** job concluded

   *** monte carlo  index =              435 ***

rtl=  18.7838u  targ=  18.7838u   trig=   0.
avg_cur= -12.8621p  from=  0.           to=  18.7838u
avg_pow=  -8.7630p  from=  0.            to=  18.7838u

          ***** job concluded

   *** monte carlo  index =              436 ***

rtl=  10.5054u  targ=  10.5054u   trig=   0.
avg_cur= -16.0465p  from=  0.           to=  10.5054u
```

avg_pow= -11.5232p from= 0.   to= 10.5054u

     ***** job concluded

  *** monte carlo index =   437 ***

rtl= 11.8089u targ= 11.8089u trig= 0.
avg_cur= -15.4221p from= 0.   to= 11.8089u
avg_pow= -10.9689p from= 0.   to= 11.8089u

     ***** job concluded

  *** monte carlo index =   438 ***

rtl= 17.5520u targ= 17.5520u trig= 0.
avg_cur= -13.2404p from= 0.   to= 17.5520u
avg_pow= -9.0820p from= 0.   to= 17.5520u

     ***** job concluded

  *** monte carlo index =   439 ***

rtl= 8.2157u targ= 8.2157u trig= 0.
avg_cur= -17.2862p from= 0.   to= 8.2157u
avg_pow= -12.6404p from= 0.   to= 8.2157u

     ***** job concluded

  *** monte carlo index =   440 ***

rtl= 26.7036u targ= 26.7036u trig= 0.
avg_cur= -10.9178p from= 0.   to= 26.7036u
avg_pow= -7.1640p from= 0.   to= 26.7036u

     ***** job concluded

  *** monte carlo index =   441 ***

rtl= 16.8800u targ= 16.8800u trig= 0.
avg_cur= -13.4588p from= 0.   to= 16.8800u
avg_pow= -9.2675p from= 0.   to= 16.8800u

     ***** job concluded

  *** monte carlo index =   442 ***

rtl= 21.1874u targ= 21.1874u trig= 0.
avg_cur= -12.1923p from= 0.   to= 21.1874u
avg_pow= -8.2042p from= 0.   to= 21.1874u

     ***** job concluded

```
     *** monte carlo  index =            443 ***

rtl= 19.8372u  targ= 19.8372u   trig=  0.
avg_cur= -12.5587p  from=  0.        to= 19.8372u
avg_pow= -8.5089p  from=  0.         to= 19.8372u

        ***** job concluded

  *** monte carlo  index =            444 ***

rtl= 12.8781u  targ= 12.8781u   trig=  0.
avg_cur= -14.9561p  from=  0.        to= 12.8781u
avg_pow= -10.5594p  from=  0.         to= 12.8781u

        ***** job concluded

  *** monte carlo  index =            445 ***

rtl= 11.6258u  targ= 11.6258u   trig=  0.
avg_cur= -15.5057p  from=  0.        to= 11.6258u
avg_pow= -11.0427p  from=  0.         to= 11.6258u

        ***** job concluded

  *** monte carlo  index =            446 ***

rtl= 13.6781u  targ= 13.6781u   trig=  0.
avg_cur= -14.6285p  from=  0.        to= 13.6781u
avg_pow= -10.2737p  from=  0.         to= 13.6781u

        ***** job concluded

  *** monte carlo  index =            447 ***

rtl= 22.9723u  targ= 22.9723u   trig=  0.
avg_cur= -11.7425p  from=  0.        to= 22.9723u
avg_pow= -7.8336p  from=  0.        to= 22.9723u

        ***** job concluded

  *** monte carlo  index =            448 ***

rtl= 13.8796u  targ= 13.8796u   trig=  0.
avg_cur= -14.5484p  from=  0.        to= 13.8796u
avg_pow= -10.2042p  from=  0.         to= 13.8796u

        ***** job concluded

  *** monte carlo  index =            449 ***

rtl=  4.6445u  targ=  4.6445u   trig=  0.
avg_cur= -19.7758p  from=  0.        to=  4.6445u
```

avg_pow= -14.9534p from= 0.   to= 4.6445u

      ***** job concluded

  *** monte carlo index =   450 ***

rtl= 34.3052u targ= 34.3052u trig= 0.
avg_cur= -9.5823p from= 0.   to= 34.3052u
avg_pow= -6.1081p from= 0.   to= 34.3052u

      ***** job concluded

  *** monte carlo index =   451 ***

rtl= 25.2028u targ= 25.2028u trig= 0.
avg_cur= -11.2330p from= 0.   to= 25.2028u
avg_pow= -7.4185p from= 0.   to= 25.2028u

      ***** job concluded

  *** monte carlo index =   452 ***

rtl=   7.6588u targ=   7.6588u trig= 0.
avg_cur= -17.6236p from= 0.   to=   7.6588u
avg_pow= -12.9486p from= 0.   to=   7.6588u

      ***** job concluded

  *** monte carlo index =   453 ***

rtl= 13.6631u targ= 13.6631u trig= 0.
avg_cur= -14.6345p from= 0.   to= 13.6631u
avg_pow= -10.2790p from= 0.   to= 13.6631u

      ***** job concluded

  *** monte carlo index =   454 ***

rtl= 14.4947u targ= 14.4947u trig= 0.
avg_cur= -14.3092p from= 0.   to= 14.4947u
avg_pow= -9.9970p from= 0.   to= 14.4947u

      ***** job concluded

  *** monte carlo index =   455 ***

rtl= 15.0700u targ= 15.0700u trig= 0.
avg_cur= -14.0923p from= 0.   to= 15.0700u
avg_pow= -9.8098p from= 0.   to= 15.0700u

      ***** job concluded

```
       *** monte carlo  index =              456 ***

rtl=  11.1972u  targ=  11.1972u   trig=  0.
avg_cur= -15.7065p  from=  0.          to=  11.1972u
avg_pow= -11.2205p  from=  0.           to=  11.1972u

        ***** job concluded

  *** monte carlo  index =              457 ***

rtl=  17.9193u  targ=  17.9193u   trig=  0.
avg_cur= -13.1247p  from=  0.          to=  17.9193u
avg_pow=  -8.9841p  from=  0.           to=  17.9193u

        ***** job concluded

  *** monte carlo  index =              458 ***

rtl=  11.0621u  targ=  11.0621u   trig=  0.
avg_cur= -15.7713p  from=  0.          to=  11.0621u
avg_pow= -11.2781p  from=  0.           to=  11.0621u

        ***** job concluded

  *** monte carlo  index =              459 ***

rtl=   8.1797u  targ=   8.1797u   trig=  0.
avg_cur= -17.3075p  from=  0.          to=   8.1797u
avg_pow= -12.6598p  from=  0.           to=   8.1797u

        ***** job concluded

  *** monte carlo  index =              460 ***

rtl=  14.4781u  targ=  14.4781u   trig=  0.
avg_cur= -14.3156p  from=  0.          to=  14.4781u
avg_pow= -10.0025p  from=  0.           to=  14.4781u

        ***** job concluded

  *** monte carlo  index =              461 ***

rtl=  17.5902u  targ=  17.5902u   trig=  0.
avg_cur= -13.2283p  from=  0.          to=  17.5902u
avg_pow=  -9.0718p  from=  0.           to=  17.5902u

        ***** job concluded

  *** monte carlo  index =              462 ***

rtl=  40.7237u  targ=  40.7237u   trig=  0.
avg_cur=  -8.7099p  from=  0.          to=  40.7237u
```

avg_pow= -5.4381p from= 0.   to= 40.7237u

  ***** job concluded

 *** monte carlo index =   463 ***

rtl= 14.7623u targ= 14.7623u trig= 0.
avg_cur= -14.2075p from= 0.   to= 14.7623u
avg_pow= -9.9092p from= 0.   to= 14.7623u

  ***** job concluded

 *** monte carlo index =   464 ***

rtl= 14.3331u targ= 14.3331u trig= 0.
avg_cur= -14.3713p from= 0.   to= 14.3331u
avg_pow= -10.0507p from= 0.   to= 14.3331u

  ***** job concluded

 *** monte carlo index =   465 ***

rtl= 9.4593u targ= 9.4593u trig= 0.
avg_cur= -16.5890p from= 0.   to= 9.4593u
avg_pow= -12.0093p from= 0.   to= 9.4593u

  ***** job concluded

 *** monte carlo index =   466 ***

rtl= 15.9826u targ= 15.9826u trig= 0.
avg_cur= -13.7641p from= 0.   to= 15.9826u
avg_pow= -9.5280p from= 0.   to= 15.9826u

  ***** job concluded

 *** monte carlo index =   467 ***

rtl= 10.1496u targ= 10.1496u trig= 0.
avg_cur= -16.2274p from= 0.   to= 10.1496u
avg_pow= -11.6848p from= 0.   to= 10.1496u

  ***** job concluded

 *** monte carlo index =   468 ***

rtl= 6.6043u targ= 6.6043u trig= 0.
avg_cur= -18.3202p from= 0.   to= 6.6043u
avg_pow= -13.5910p from= 0.   to= 6.6043u

  ***** job concluded

```
  *** monte carlo  index =               469 ***

rtl= 23.8489u  targ= 23.8489u  trig=  0.
avg_cur= -11.5358p  from=  0.          to= 23.8489u
avg_pow= -7.6646p  from=  0.           to= 23.8489u

      ***** job concluded

  *** monte carlo  index =               470 ***

rtl=  5.6975u  targ=  5.6975u  trig=  0.
avg_cur= -18.9637p  from=  0.          to=  5.6975u
avg_pow= -14.1897p  from=  0.           to=  5.6975u

      ***** job concluded

  *** monte carlo  index =               471 ***

rtl= 14.0241u  targ= 14.0241u  trig=  0.
avg_cur= -14.4915p  from=  0.          to= 14.0241u
avg_pow= -10.1548p  from=  0.           to= 14.0241u

      ***** job concluded

  *** monte carlo  index =               472 ***

rtl= 12.9348u  targ= 12.9348u  trig=  0.
avg_cur= -14.9323p  from=  0.          to= 12.9348u
avg_pow= -10.5387p  from=  0.           to= 12.9348u

      ***** job concluded

  *** monte carlo  index =               473 ***

rtl= 12.6159u  targ= 12.6159u  trig=  0.
avg_cur= -15.0671p  from=  0.          to= 12.6159u
avg_pow= -10.6567p  from=  0.           to= 12.6159u

      ***** job concluded

  *** monte carlo  index =               474 ***

rtl= 13.4720u  targ= 13.4720u  trig=  0.
avg_cur= -14.7114p  from=  0.          to= 13.4720u
avg_pow= -10.3459p  from=  0.           to= 13.4720u

      ***** job concluded

  *** monte carlo  index =               475 ***

rtl= 41.9594u  targ= 41.9594u  trig=  0.
avg_cur= -8.5619p  from=  0.          to= 41.9594u
```

avg_pow= -5.3261p from= 0.   to= 41.9594u

    ***** job concluded

  *** monte carlo index =   476 ***

rtl= 6.2326u targ= 6.2326u   trig= 0.
avg_cur= -18.5793p from= 0.   to= 6.2326u
avg_pow= -13.8315p from= 0.   to= 6.2326u

    ***** job concluded

  *** monte carlo index =   477 ***

rtl= 15.4546u targ= 15.4546u   trig= 0.
avg_cur= -13.9516p from= 0.   to= 15.4546u
avg_pow= -9.6888p from= 0.   to= 15.4546u

    ***** job concluded

  *** monte carlo index =   478 ***

rtl= 11.1705u targ= 11.1705u   trig= 0.
avg_cur= -15.7192p from= 0.   to= 11.1705u
avg_pow= -11.2318p from= 0.   to= 11.1705u

    ***** job concluded

  *** monte carlo index =   479 ***

rtl= 8.1159u targ= 8.1159u   trig= 0.
avg_cur= -17.3453p from= 0.   to= 8.1159u
avg_pow= -12.6943p from= 0.   to= 8.1159u

    ***** job concluded

  *** monte carlo index =   480 ***

rtl= 16.8912u targ= 16.8912u   trig= 0.
avg_cur= -13.4551p from= 0.   to= 16.8912u
avg_pow= -9.2643p from= 0.   to= 16.8912u

    ***** job concluded

  *** monte carlo index =   481 ***

rtl= 9.4832u targ= 9.4832u   trig= 0.
avg_cur= -16.5763p from= 0.   to= 9.4832u
avg_pow= -11.9979p from= 0.   to= 9.4832u

    ***** job concluded

```
          *** monte carlo  index =              482 ***

rtl= 19.6460u  targ= 19.6460u   trig=  0.
avg_cur= -12.6126p  from=  0.         to= 19.6460u
avg_pow=  -8.5538p  from=  0.         to= 19.6460u

        ***** job concluded

  *** monte carlo  index =              483 ***

rtl=  7.2852u  targ=  7.2852u   trig=  0.
avg_cur= -17.8614p  from=  0.         to=  7.2852u
avg_pow= -13.1670p  from=  0.         to=  7.2852u

        ***** job concluded

  *** monte carlo  index =              484 ***

rtl= 22.8639u  targ= 22.8639u   trig=  0.
avg_cur= -11.7687p  from=  0.         to= 22.8639u
avg_pow=  -7.8551p  from=  0.         to= 22.8639u

        ***** job concluded

  *** monte carlo  index =              485 ***

rtl= 17.2498u  targ= 17.2498u   trig=  0.
avg_cur= -13.3376p  from=  0.         to= 17.2498u
avg_pow=  -9.1645p  from=  0.         to= 17.2498u

        ***** job concluded

  *** monte carlo  index =              486 ***

rtl=  7.9624u  targ=  7.9624u   trig=  0.
avg_cur= -17.4374p  from=  0.         to=  7.9624u
avg_pow= -12.7783p  from=  0.         to=  7.9624u

        ***** job concluded

  *** monte carlo  index =              487 ***

rtl= 17.7353u  targ= 17.7353u   trig=  0.
avg_cur= -13.1823p  from=  0.         to= 17.7353u
avg_pow=  -9.0329p  from=  0.         to= 17.7353u

        ***** job concluded

  *** monte carlo  index =              488 ***

rtl= 17.6097u  targ= 17.6097u   trig=  0.
avg_cur= -13.2220p  from=  0.         to= 17.6097u
```

avg_pow= -9.0665p from= 0.   to= 17.6097u

  ***** job concluded

 *** monte carlo index =   489 ***

rtl= 10.7534u targ= 10.7534u trig= 0.
avg_cur= -15.9224p from= 0.   to= 10.7534u
avg_pow= -11.4125p from= 0.   to= 10.7534u

  ***** job concluded

 *** monte carlo index =   490 ***

rtl= 17.3488u targ= 17.3488u trig= 0.
avg_cur= -13.3056p from= 0.   to= 17.3488u
avg_pow= -9.1373p from= 0.   to= 17.3488u

  ***** job concluded

 *** monte carlo index =   491 ***

rtl= 10.9534u targ= 10.9534u trig= 0.
avg_cur= -15.8240p from= 0.   to= 10.9534u
avg_pow= -11.3249p from= 0.   to= 10.9534u

  ***** job concluded

 *** monte carlo index =   492 ***

rtl= 17.2135u targ= 17.2135u trig= 0.
avg_cur= -13.3494p from= 0.   to= 17.2135u
avg_pow= -9.1745p from= 0.   to= 17.2135u

  ***** job concluded

 *** monte carlo index =   493 ***

rtl= 11.1082u targ= 11.1082u trig= 0.
avg_cur= -15.7491p from= 0.   to= 11.1082u
avg_pow= -11.2583p from= 0.   to= 11.1082u

  ***** job concluded

 *** monte carlo index =   494 ***

rtl= 11.5328u targ= 11.5328u trig= 0.
avg_cur= -15.5487p from= 0.   to= 11.5328u
avg_pow= -11.0807p from= 0.   to= 11.5328u

  ***** job concluded

```
    *** monte carlo  index =              495 ***

rtl=  16.5136u  targ=  16.5136u   trig=   0.
avg_cur= -13.5815p  from=  0.          to=  16.5136u
avg_pow=  -9.3720p  from=  0.          to=  16.5136u

        ***** job concluded

  *** monte carlo  index =              496 ***

rtl=   8.2929u  targ=   8.2929u   trig=   0.
avg_cur= -17.2408p  from=  0.          to=   8.2929u
avg_pow= -12.5991p  from=  0.          to=   8.2929u

        ***** job concluded

  *** monte carlo  index =              497 ***

rtl=  10.1515u  targ=  10.1515u   trig=   0.
avg_cur= -16.2264p  from=  0.          to=  10.1515u
avg_pow= -11.6839p  from=  0.          to=  10.1515u

        ***** job concluded

  *** monte carlo  index =              498 ***

rtl=  21.5919u  targ=  21.5919u   trig=   0.
avg_cur= -12.0869p  from=  0.          to=  21.5919u
avg_pow=  -8.1170p  from=  0.          to=  21.5919u

        ***** job concluded

  *** monte carlo  index =              499 ***

rtl=  22.5500u  targ=  22.5500u   trig=   0.
avg_cur= -11.8454p  from=  0.          to=  22.5500u
avg_pow=  -7.9181p  from=  0.          to=  22.5500u

        ***** job concluded

  *** monte carlo  index =              500 ***

rtl=  17.0357u  targ=  17.0357u   trig=   0.
avg_cur= -13.4075p  from=  0.          to=  17.0357u
avg_pow=  -9.2238p  from=  0.          to=  17.0357u

        ***** job concluded

  *** monte carlo  index =              501 ***

rtl=  15.6114u  targ=  15.6114u   trig=   0.
avg_cur= -13.8953p  from=  0.          to=  15.6114u
```

avg_pow= -9.6404p from=   0.   to= 15.6114u

　　　　 ***** job concluded

　 *** monte carlo index =   502 ***

rtl= 14.9257u targ= 14.9257u   trig= 0.
avg_cur= -14.1461p from= 0.   to= 14.9257u
avg_pow= -9.8561p from= 0.   to= 14.9257u

　　　　 ***** job concluded

　 *** monte carlo index =   503 ***

rtl= 14.5297u targ= 14.5297u   trig= 0.
avg_cur= -14.2959p from= 0.   to= 14.5297u
avg_pow= -9.9854p from= 0.   to= 14.5297u

　　　　 ***** job concluded

　 *** monte carlo index =   504 ***

rtl= 25.8130u targ= 25.8130u   trig= 0.
avg_cur= -11.1025p from= 0.   to= 25.8130u
avg_pow= -7.3129p from= 0.   to= 25.8130u

　　　　 ***** job concluded

　 *** monte carlo index =   505 ***

rtl= 14.4894u targ= 14.4894u   trig= 0.
avg_cur= -14.3113p from= 0.   to= 14.4894u
avg_pow= -9.9987p from= 0.   to= 14.4894u

　　　　 ***** job concluded

　 *** monte carlo index =   506 ***

rtl= 12.7336u targ= 12.7336u   trig= 0.
avg_cur= -15.0170p from= 0.   to= 12.7336u
avg_pow= -10.6128p from= 0.   to= 12.7336u

　　　　 ***** job concluded

　 *** monte carlo index =   507 ***

rtl= 11.4565u targ= 11.4565u   trig= 0.
avg_cur= -15.5842p from= 0.   to= 11.4565u
avg_pow= -11.1121p from= 0.   to= 11.4565u

　　　　 ***** job concluded

```
     *** monte carlo  index =              508 ***

rtl=  9.8640u  targ=  9.8640u  trig=  0.
avg_cur= -16.3752p  from=  0.          to=  9.8640u
avg_pow= -11.8172p  from=  0.           to=  9.8640u

        ***** job concluded

  *** monte carlo  index =              509 ***

rtl=  8.8323u  targ=  8.8323u  trig=  0.
avg_cur= -16.9321p  from=  0.          to=  8.8323u
avg_pow= -12.3189p  from=  0.           to=  8.8323u

        ***** job concluded

  *** monte carlo  index =              510 ***

rtl=  11.4661u  targ=  11.4661u  trig=  0.
avg_cur= -15.5797p  from=  0.          to=  11.4661u
avg_pow= -11.1081p  from=  0.           to=  11.4661u

        ***** job concluded

  *** monte carlo  index =              511 ***

rtl=  13.7677u  targ=  13.7677u  trig=  0.
avg_cur= -14.5927p  from=  0.          to=  13.7677u
avg_pow= -10.2427p  from=  0.           to=  13.7677u

        ***** job concluded

  *** monte carlo  index =              512 ***

rtl=  28.4386u  targ=  28.4386u  trig=  0.
avg_cur= -10.5765p  from=  0.          to=  28.4386u
avg_pow=  -6.8908p  from=  0.           to=  28.4386u

        ***** job concluded

  *** monte carlo  index =              513 ***

rtl=  17.4623u  targ=  17.4623u  trig=  0.
avg_cur= -13.2691p  from=  0.          to=  17.4623u
avg_pow=  -9.1063p  from=  0.           to=  17.4623u

        ***** job concluded

  *** monte carlo  index =              514 ***

rtl=  24.7927u  targ=  24.7927u  trig=  0.
avg_cur= -11.3228p  from=  0.          to=  24.7927u
```

avg_pow= -7.4912p from= 0.   to= 24.7927u

     ***** job concluded

  *** monte carlo index =   515 ***

rtl= 4.9265u targ= 4.9265u   trig= 0.
avg_cur= -19.5491p from= 0.   to= 4.9265u
avg_pow= -14.7392p from= 0.   to= 4.9265u

     ***** job concluded

  *** monte carlo index =   516 ***

rtl= 16.9269u targ= 16.9269u   trig= 0.
avg_cur= -13.4433p from= 0.   to= 16.9269u
avg_pow= -9.2543p from= 0.   to= 16.9269u

     ***** job concluded

  *** monte carlo index =   517 ***

rtl= 18.8537u targ= 18.8537u   trig= 0.
avg_cur= -12.8414p from= 0.   to= 18.8537u
avg_pow= -8.7456p from= 0.   to= 18.8537u

     ***** job concluded

  *** monte carlo index =   518 ***

rtl= 13.2788u targ= 13.2788u   trig= 0.
avg_cur= -14.7900p from= 0.   to= 13.2788u
avg_pow= -10.4144p from= 0.   to= 13.2788u

     ***** job concluded

  *** monte carlo index =   519 ***

rtl= 13.3557u targ= 13.3557u   trig= 0.
avg_cur= -14.7586p from= 0.   to= 13.3557u
avg_pow= -10.3870p from= 0.   to= 13.3557u

     ***** job concluded

  *** monte carlo index =   520 ***

rtl= 23.0205u targ= 23.0205u   trig= 0.
avg_cur= -11.7309p from= 0.   to= 23.0205u
avg_pow= -7.8241p from= 0.   to= 23.0205u

     ***** job concluded

```
       *** monte carlo  index =              521 ***

rtl= 13.6839u  targ= 13.6839u   trig=   0.
avg_cur= -14.6261p  from=  0.          to=  13.6839u
avg_pow= -10.2717p  from=  0.           to=  13.6839u

        ***** job concluded

  *** monte carlo  index =              522 ***

rtl= 11.8038u  targ= 11.8038u   trig=   0.
avg_cur= -15.4244p  from=  0.          to=  11.8038u
avg_pow= -10.9709p  from=  0.           to=  11.8038u

        ***** job concluded

  *** monte carlo  index =              523 ***

rtl= 28.4965u  targ= 28.4965u   trig=   0.
avg_cur= -10.5655p  from=  0.          to=  28.4965u
avg_pow=  -6.8820p  from=  0.           to=  28.4965u

        ***** job concluded

  *** monte carlo  index =              524 ***

rtl=  4.7946u  targ=  4.7946u   trig=  0.
avg_cur= -19.6541p  from=  0.          to=   4.7946u
avg_pow= -14.8383p  from=  0.           to=   4.7946u

        ***** job concluded

  *** monte carlo  index =              525 ***

rtl=  9.5008u  targ=  9.5008u   trig=  0.
avg_cur= -16.5669p  from=  0.          to=   9.5008u
avg_pow= -11.9894p  from=  0.           to=   9.5008u

        ***** job concluded

  *** monte carlo  index =              526 ***

rtl=  5.3046u  targ=  5.3046u   trig=  0.
avg_cur= -19.2566p  from=  0.          to=   5.3046u
avg_pow= -14.4640p  from=  0.           to=   5.3046u

        ***** job concluded

  *** monte carlo  index =              527 ***

rtl=  8.2156u  targ=  8.2156u   trig=  0.
avg_cur= -17.2863p  from=  0.          to=   8.2156u
```

avg_pow= -12.6405p from= 0.   to= 8.2156u

     ***** job concluded

  *** monte carlo index =   528 ***

rtl= 10.9899u targ= 10.9899u trig= 0.
avg_cur= -15.8062p from= 0.   to= 10.9899u
avg_pow= -11.3091p from= 0.   to= 10.9899u

     ***** job concluded

  *** monte carlo index =   529 ***

rtl= 20.4755u targ= 20.4755u trig= 0.
avg_cur= -12.3826p from= 0.   to= 20.4755u
avg_pow= -8.3622p from= 0.   to= 20.4755u

     ***** job concluded

  *** monte carlo index =   530 ***

rtl= 17.1205u targ= 17.1205u trig= 0.
avg_cur= -13.3797p from= 0.   to= 17.1205u
avg_pow= -9.2002p from= 0.   to= 17.1205u

     ***** job concluded

  *** monte carlo index =   531 ***

rtl= 10.1517u targ= 10.1517u trig= 0.
avg_cur= -16.2263p from= 0.   to= 10.1517u
avg_pow= -11.6838p from= 0.   to= 10.1517u

     ***** job concluded

  *** monte carlo index =   532 ***

rtl= 8.5532u targ= 8.5532u trig= 0.
avg_cur= -17.0901p from= 0.   to= 8.5532u
avg_pow= -12.4621p from= 0.   to= 8.5532u

     ***** job concluded

  *** monte carlo index =   533 ***

rtl= 27.4375u targ= 27.4375u trig= 0.
avg_cur= -10.7704p from= 0.   to= 27.4375u
avg_pow= -7.0458p from= 0.   to= 27.4375u

     ***** job concluded

```
    *** monte carlo  index =              534 ***

rtl=  18.5505u  targ=  18.5505u   trig=   0.
avg_cur= -12.9317p  from=  0.         to=  18.5505u
avg_pow=  -8.8214p  from=  0.          to=  18.5505u

        ***** job concluded

   *** monte carlo  index =              535 ***

rtl=  12.8380u  targ=  12.8380u   trig=   0.
avg_cur= -14.9729p  from=  0.         to=  12.8380u
avg_pow= -10.5742p  from=  0.          to=  12.8380u

        ***** job concluded

   *** monte carlo  index =              536 ***

rtl=  21.2452u  targ=  21.2452u   trig=   0.
avg_cur= -12.1771p  from=  0.         to=  21.2452u
avg_pow=  -8.1917p  from=  0.          to=  21.2452u

        ***** job concluded

   *** monte carlo  index =              537 ***

rtl=   9.3066u  targ=   9.3066u   trig=   0.
avg_cur= -16.6712p  from=  0.         to=   9.3066u
avg_pow= -12.0833p  from=  0.          to=   9.3066u

        ***** job concluded

   *** monte carlo  index =              538 ***

rtl=   9.2239u  targ=   9.2239u   trig=   0.
avg_cur= -16.7160p  from=  0.         to=   9.2239u
avg_pow= -12.1238p  from=  0.          to=   9.2239u

        ***** job concluded

   *** monte carlo  index =              539 ***

rtl=  18.7148u  targ=  18.7148u   trig=   0.
avg_cur= -12.8826p  from=  0.         to=  18.7148u
avg_pow=  -8.7802p  from=  0.          to=  18.7148u

        ***** job concluded

   *** monte carlo  index =              540 ***

rtl=  11.0409u  targ=  11.0409u   trig=   0.
avg_cur= -15.7815p  from=  0.         to=  11.0409u
```

avg_pow= -11.2871p from= 0.   to= 11.0409u

     ***** job concluded

  *** monte carlo index =   541 ***

rtl= 14.7561u targ= 14.7561u trig= 0.
avg_cur= -14.2098p from= 0.   to= 14.7561u
avg_pow= -9.9111p from= 0.   to= 14.7561u

     ***** job concluded

  *** monte carlo index =   542 ***

rtl= 8.9324u targ= 8.9324u trig= 0.
avg_cur= -16.8763p from= 0.   to= 8.9324u
avg_pow= -12.2684p from= 0.   to= 8.9324u

     ***** job concluded

  *** monte carlo index =   543 ***

rtl= 11.7852u targ= 11.7852u trig= 0.
avg_cur= -15.4329p from= 0.   to= 11.7852u
avg_pow= -10.9784p from= 0.   to= 11.7852u

     ***** job concluded

  *** monte carlo index =   544 ***

rtl= 15.3641u targ= 15.3641u trig= 0.
avg_cur= -13.9844p from= 0.   to= 15.3641u
avg_pow= -9.7170p from= 0.   to= 15.3641u

     ***** job concluded

  *** monte carlo index =   545 ***

rtl= 30.6142u targ= 30.6142u trig= 0.
avg_cur= -10.1812p from= 0.   to= 30.6142u
avg_pow= -6.5772p from= 0.   to= 30.6142u

     ***** job concluded

  *** monte carlo index =   546 ***

rtl= 17.0764u targ= 17.0764u trig= 0.
avg_cur= -13.3941p from= 0.   to= 17.0764u
avg_pow= -9.2125p from= 0.   to= 17.0764u

     ***** job concluded

```
       *** monte carlo  index =           547 ***

rtl=  4.2676u  targ=  4.2676u  trig=  0.
avg_cur= -20.0925p  from=  0.        to=  4.2676u
avg_pow= -15.2543p  from=  0.         to=  4.2676u

        ***** job concluded

  *** monte carlo  index =           548 ***

rtl=  17.6697u  targ=  17.6697u  trig=  0.
avg_cur= -13.2030p  from=  0.        to=  17.6697u
avg_pow=  -9.0504p  from=  0.         to=  17.6697u

        ***** job concluded

  *** monte carlo  index =           549 ***

rtl=  19.5670u  targ=  19.5670u  trig=  0.
avg_cur= -12.6350p  from=  0.        to=  19.5670u
avg_pow=  -8.5726p  from=  0.         to=  19.5670u

        ***** job concluded

  *** monte carlo  index =           550 ***

rtl=  14.1836u  targ=  14.1836u  trig=  0.
avg_cur= -14.4292p  from=  0.        to=  14.1836u
avg_pow= -10.1008p  from=  0.         to=  14.1836u

        ***** job concluded

  *** monte carlo  index =           551 ***

rtl=  12.5819u  targ=  12.5819u  trig=  0.
avg_cur= -15.0817p  from=  0.        to=  12.5819u
avg_pow= -10.6694p  from=  0.         to=  12.5819u

        ***** job concluded

  *** monte carlo  index =           552 ***

rtl=  11.7421u  targ=  11.7421u  trig=  0.
avg_cur= -15.4525p  from=  0.        to=  11.7421u
avg_pow= -10.9957p  from=  0.         to=  11.7421u

        ***** job concluded

  *** monte carlo  index =           553 ***

rtl=  19.7190u  targ=  19.7190u  trig=  0.
avg_cur= -12.5920p  from=  0.        to=  19.7190u
```

avg_pow= -8.5366p from= 0.   to= 19.7190u

     ***** job concluded

  *** monte carlo index =   554 ***

rtl= 18.9111u targ= 18.9111u   trig= 0.
avg_cur= -12.8246p from= 0.   to= 18.9111u
avg_pow= -8.7314p from= 0.   to= 18.9111u

     ***** job concluded

  *** monte carlo index =   555 ***

rtl= 8.1129u targ= 8.1129u   trig= 0.
avg_cur= -17.3471p from= 0.   to= 8.1129u
avg_pow= -12.6959p from= 0.   to= 8.1129u

     ***** job concluded

  *** monte carlo index =   556 ***

rtl= 18.0761u targ= 18.0761u   trig= 0.
avg_cur= -13.0760p from= 0.   to= 18.0761u
avg_pow= -8.9431p from= 0.   to= 18.0761u

     ***** job concluded

  *** monte carlo index =   557 ***

rtl= 30.0364u targ= 30.0364u   trig= 0.
avg_cur= -10.2829p from= 0.   to= 30.0364u
avg_pow= -6.6576p from= 0.   to= 30.0364u

     ***** job concluded

  *** monte carlo index =   558 ***

rtl= 22.1674u targ= 22.1674u   trig= 0.
avg_cur= -11.9405p from= 0.   to= 22.1674u
avg_pow= -7.9963p from= 0.   to= 22.1674u

     ***** job concluded

  *** monte carlo index =   559 ***

rtl= 9.9349u targ= 9.9349u   trig= 0.
avg_cur= -16.3382p from= 0.   to= 9.9349u
avg_pow= -11.7841p from= 0.   to= 9.9349u

     ***** job concluded

```
        *** monte carlo  index =            560 ***

rtl=  7.6325u  targ=  7.6325u   trig=  0.
avg_cur= -17.6401p  from=  0.        to=  7.6325u
avg_pow= -12.9637p  from=  0.         to=  7.6325u

        ***** job concluded

    *** monte carlo  index =            561 ***

rtl=  11.8141u  targ=  11.8141u   trig=  0.
avg_cur= -15.4197p  from=  0.        to=  11.8141u
avg_pow= -10.9668p  from=  0.         to=  11.8141u

        ***** job concluded

    *** monte carlo  index =            562 ***

rtl=  8.2862u  targ=  8.2862u   trig=  0.
avg_cur= -17.2448p  from=  0.        to=  8.2862u
avg_pow= -12.6027p  from=  0.         to=  8.2862u

        ***** job concluded

    *** monte carlo  index =            563 ***

rtl=  12.0540u  targ=  12.0540u   trig=  0.
avg_cur= -15.3121p  from=  0.        to=  12.0540u
avg_pow= -10.8719p  from=  0.         to=  12.0540u

        ***** job concluded

    *** monte carlo  index =            564 ***

rtl=  15.6403u  targ=  15.6403u   trig=  0.
avg_cur= -13.8850p  from=  0.        to=  15.6403u
avg_pow=  -9.6316p  from=  0.         to=  15.6403u

        ***** job concluded

    *** monte carlo  index =            565 ***

rtl=  15.2967u  targ=  15.2967u   trig=  0.
avg_cur= -14.0090p  from=  0.        to=  15.2967u
avg_pow=  -9.7381p  from=  0.         to=  15.2967u

        ***** job concluded

    *** monte carlo  index =            566 ***

rtl=  3.5748u  targ=  3.5748u   trig=  0.
avg_cur= -20.7197p  from=  0.        to=  3.5748u
```

avg_pow= -15.8549p from= 0.   to=   3.5748u

     ***** job concluded

 *** monte carlo index =   567 ***

rtl= 11.1541u targ= 11.1541u   trig= 0.
avg_cur= -15.7271p from= 0.   to= 11.1541u
avg_pow= -11.2388p from= 0.   to= 11.1541u

     ***** job concluded

 *** monte carlo index =   568 ***

rtl= 8.9829u targ= 8.9829u   trig= 0.
avg_cur= -16.8483p from= 0.   to= 8.9829u
avg_pow= -12.2431p from= 0.   to= 8.9829u

     ***** job concluded

 *** monte carlo index =   569 ***

rtl= 18.7220u targ= 18.7220u   trig= 0.
avg_cur= -12.8805p from= 0.   to= 18.7220u
avg_pow= -8.7784p from= 0.   to= 18.7220u

     ***** job concluded

 *** monte carlo index =   570 ***

rtl= 12.4992u targ= 12.4992u   trig= 0.
avg_cur= -15.1172p from= 0.   to= 12.4992u
avg_pow= -10.7006p from= 0.   to= 12.4992u

     ***** job concluded

 *** monte carlo index =   571 ***

rtl= 13.9719u targ= 13.9719u   trig= 0.
avg_cur= -14.5120p from= 0.   to= 13.9719u
avg_pow= -10.1726p from= 0.   to= 13.9719u

     ***** job concluded

 *** monte carlo index =   572 ***

rtl= 18.8591u targ= 18.8591u   trig= 0.
avg_cur= -12.8399p from= 0.   to= 18.8591u
avg_pow= -8.7443p from= 0.   to= 18.8591u

     ***** job concluded

```
    *** monte carlo  index =            573 ***

rtl= 13.2615u  targ= 13.2615u   trig=  0.
avg_cur= -14.7970p  from=  0.         to= 13.2615u
avg_pow= -10.4205p  from=  0.          to= 13.2615u

      ***** job concluded

  *** monte carlo  index =            574 ***

rtl= 11.0800u  targ= 11.0800u   trig=  0.
avg_cur= -15.7626p  from=  0.         to= 11.0800u
avg_pow= -11.2704p  from=  0.          to= 11.0800u

      ***** job concluded

  *** monte carlo  index =            575 ***

rtl= 13.0904u  targ= 13.0904u   trig=  0.
avg_cur= -14.8676p  from=  0.         to= 13.0904u
avg_pow= -10.4821p  from=  0.          to= 13.0904u

      ***** job concluded

  *** monte carlo  index =            576 ***

rtl=  7.8770u  targ=  7.8770u   trig=  0.
avg_cur= -17.4892p  from=  0.         to=  7.8770u
avg_pow= -12.8256p  from=  0.          to=  7.8770u

      ***** job concluded

  *** monte carlo  index =            577 ***

rtl=  9.1694u  targ=  9.1694u   trig=  0.
avg_cur= -16.7457p  from=  0.         to=  9.1694u
avg_pow= -12.1505p  from=  0.          to=  9.1694u

      ***** job concluded

  *** monte carlo  index =            578 ***

rtl= 11.6178u  targ= 11.6178u   trig=  0.
avg_cur= -15.5094p  from=  0.         to= 11.6178u
avg_pow= -11.0460p  from=  0.          to= 11.6178u

      ***** job concluded

  *** monte carlo  index =            579 ***

rtl= 20.3132u  targ= 20.3132u   trig=  0.
avg_cur= -12.4269p  from=  0.         to= 20.3132u
```

avg_pow= -8.3990p from= 0.   to= 20.3132u

     ***** job concluded

  *** monte carlo index =   580 ***

rtl= 12.8238u targ= 12.8238u trig= 0.
avg_cur= -14.9789p from= 0.   to= 12.8238u
avg_pow= -10.5794p from= 0.   to= 12.8238u

     ***** job concluded

  *** monte carlo index =   581 ***

rtl= 5.7629u targ= 5.7629u trig= 0.
avg_cur= -18.9159p from= 0.   to= 5.7629u
avg_pow= -14.1451p from= 0.   to= 5.7629u

     ***** job concluded

  *** monte carlo index =   582 ***

rtl= 6.8580u targ= 6.8580u trig= 0.
avg_cur= -18.1463p from= 0.   to= 6.8580u
avg_pow= -13.4300p from= 0.   to= 6.8580u

     ***** job concluded

  *** monte carlo index =   583 ***

rtl= 16.5187u targ= 16.5187u trig= 0.
avg_cur= -13.5798p from= 0.   to= 16.5187u
avg_pow= -9.3705p from= 0.   to= 16.5187u

     ***** job concluded

  *** monte carlo index =   584 ***

rtl= 23.6859u targ= 23.6859u trig= 0.
avg_cur= -11.5735p from= 0.   to= 23.6859u
avg_pow= -7.6954p from= 0.   to= 23.6859u

     ***** job concluded

  *** monte carlo index =   585 ***

rtl= 3.9098u targ= 3.9098u trig= 0.
avg_cur= -20.4118p from= 0.   to= 3.9098u
avg_pow= -15.5595p from= 0.   to= 3.9098u

     ***** job concluded

```
        *** monte carlo  index =              586 ***

rtl=  14.8359u  targ=  14.8359u   trig=   0.
avg_cur= -14.1798p  from=  0.          to=  14.8359u
avg_pow=  -9.8852p  from=  0.           to=  14.8359u

        ***** job concluded

        *** monte carlo  index =              587 ***

rtl=  11.5733u  targ=  11.5733u   trig=   0.
avg_cur= -15.5299p  from=  0.          to=  11.5733u
avg_pow= -11.0641p  from=  0.           to=  11.5733u

        ***** job concluded

        *** monte carlo  index =              588 ***

rtl=  12.0573u  targ=  12.0573u   trig=   0.
avg_cur= -15.3106p  from=  0.          to=  12.0573u
avg_pow= -10.8706p  from=  0.           to=  12.0573u

        ***** job concluded

        *** monte carlo  index =              589 ***

rtl=  11.9403u  targ=  11.9403u   trig=   0.
avg_cur= -15.3629p  from=  0.          to=  11.9403u
avg_pow= -10.9166p  from=  0.           to=  11.9403u

        ***** job concluded

        *** monte carlo  index =              590 ***

rtl=  5.4358u  targ=  5.4358u  trig=   0.
avg_cur= -19.1576p  from=  0.          to=  5.4358u
avg_pow= -14.3712p  from=  0.           to=  5.4358u

        ***** job concluded

        *** monte carlo  index =              591 ***

rtl=  21.0615u  targ=  21.0615u   trig=   0.
avg_cur= -12.2255p  from=  0.          to=  21.0615u
avg_pow=  -8.2318p  from=  0.           to=  21.0615u

        ***** job concluded

        *** monte carlo  index =              592 ***

rtl=  18.7289u  targ=  18.7289u   trig=   0.
avg_cur= -12.8784p  from=  0.          to=  18.7289u
```

avg_pow= -8.7766p from= 0.   to= 18.7289u

     ***** job concluded

  *** monte carlo index =   593 ***

rtl= 13.6866u targ= 13.6866u trig= 0.
avg_cur= -14.6251p from= 0.   to= 13.6866u
avg_pow= -10.2708p from= 0.   to= 13.6866u

     ***** job concluded

  *** monte carlo index =   594 ***

rtl= 17.2656u targ= 17.2656u trig= 0.
avg_cur= -13.3325p from= 0.   to= 17.2656u
avg_pow= -9.1601p from= 0.   to= 17.2656u

     ***** job concluded

  *** monte carlo index =   595 ***

rtl= 11.8123u targ= 11.8123u trig= 0.
avg_cur= -15.4206p from= 0.   to= 11.8123u
avg_pow= -10.9675p from= 0.   to= 11.8123u

     ***** job concluded

  *** monte carlo index =   596 ***

rtl= 15.3520u targ= 15.3520u trig= 0.
avg_cur= -13.9888p from= 0.   to= 15.3520u
avg_pow= -9.7208p from= 0.   to= 15.3520u

     ***** job concluded

  *** monte carlo index =   597 ***

rtl= 6.8662u targ= 6.8662u trig= 0.
avg_cur= -18.1407p from= 0.   to= 6.8662u
avg_pow= -13.4249p from= 0.   to= 6.8662u

     ***** job concluded

  *** monte carlo index =   598 ***

rtl= 11.6717u targ= 11.6717u trig= 0.
avg_cur= -15.4846p from= 0.   to= 11.6717u
avg_pow= -11.0241p from= 0.   to= 11.6717u

     ***** job concluded

```
     *** monte carlo  index =              599 ***

rtl=  12.5842u  targ=  12.5842u   trig=   0.
avg_cur= -15.0807p  from=  0.          to=  12.5842u
avg_pow= -10.6686p  from=  0.           to=  12.5842u

        ***** job concluded

  *** monte carlo  index =              600 ***

rtl=  19.0896u  targ=  19.0896u   trig=   0.
avg_cur= -12.7723p  from=  0.          to=  19.0896u
avg_pow=  -8.6875p  from=  0.           to=  19.0896u

        ***** job concluded

  *** monte carlo  index =              601 ***

rtl=  11.4970u  targ=  11.4970u   trig=   0.
avg_cur= -15.5653p  from=  0.          to=  11.4970u
avg_pow= -11.0954p  from=  0.           to=  11.4970u

        ***** job concluded

  *** monte carlo  index =              602 ***

rtl=  6.5544u  targ=  6.5544u   trig=   0.
avg_cur= -18.3546p  from=  0.          to=  6.5544u
avg_pow= -13.6229p  from=  0.           to=  6.5544u

        ***** job concluded

  *** monte carlo  index =              603 ***

rtl=  8.0439u  targ=  8.0439u   trig=   0.
avg_cur= -17.3883p  from=  0.          to=  8.0439u
avg_pow= -12.7335p  from=  0.           to=  8.0439u

        ***** job concluded

  *** monte carlo  index =              604 ***

rtl=  9.9651u  targ=  9.9651u   trig=   0.
avg_cur= -16.3226p  from=  0.          to=  9.9651u
avg_pow= -11.7701p  from=  0.           to=  9.9651u

        ***** job concluded

  *** monte carlo  index =              605 ***

rtl=  22.2317u  targ=  22.2317u   trig=   0.
avg_cur= -11.9244p  from=  0.          to=  22.2317u
```

avg_pow= -7.9831p from= 0.   to= 22.2317u

    ***** job concluded

  *** monte carlo index =   606 ***

rtl= 13.8914u targ= 13.8914u   trig= 0.
avg_cur= -14.5437p from= 0.   to= 13.8914u
avg_pow= -10.2001p from= 0.   to= 13.8914u

    ***** job concluded

  *** monte carlo index =   607 ***

rtl= 15.1508u targ= 15.1508u   trig= 0.
avg_cur= -14.0625p from= 0.   to= 15.1508u
avg_pow= -9.7841p from= 0.   to= 15.1508u

    ***** job concluded

  *** monte carlo index =   608 ***

rtl= 6.8908u targ= 6.8908u   trig= 0.
avg_cur= -18.1241p from= 0.   to= 6.8908u
avg_pow= -13.4094p from= 0.   to= 6.8908u

    ***** job concluded

  *** monte carlo index =   609 ***

rtl= 12.7198u targ= 12.7198u   trig= 0.
avg_cur= -15.0229p from= 0.   to= 12.7198u
avg_pow= -10.6179p from= 0.   to= 12.7198u

    ***** job concluded

  *** monte carlo index =   610 ***

rtl= 6.9820u targ= 6.9820u   trig= 0.
avg_cur= -18.0622p from= 0.   to= 6.9820u
avg_pow= -13.3523p from= 0.   to= 6.9820u

    ***** job concluded

  *** monte carlo index =   611 ***

rtl= 18.4335u targ= 18.4335u   trig= 0.
avg_cur= -12.9669p from= 0.   to= 18.4335u
avg_pow= -8.8511p from= 0.   to= 18.4335u

    ***** job concluded

```
        *** monte carlo  index =            612 ***

rtl= 23.8904u  targ= 23.8904u   trig=  0.
avg_cur= -11.5262p  from=  0.        to= 23.8904u
avg_pow=  -7.6568p  from=  0.        to= 23.8904u

        ***** job concluded

   *** monte carlo  index =            613 ***

rtl=  8.8597u  targ=  8.8597u   trig=  0.
avg_cur= -16.9168p  from=  0.        to=  8.8597u
avg_pow= -12.3051p  from=  0.         to=  8.8597u

        ***** job concluded

   *** monte carlo  index =            614 ***

rtl= 15.4328u  targ= 15.4328u   trig=  0.
avg_cur= -13.9595p  from=  0.        to= 15.4328u
avg_pow=  -9.6956p  from=  0.         to= 15.4328u

        ***** job concluded

   *** monte carlo  index =            615 ***

rtl=  7.9267u  targ=  7.9267u   trig=  0.
avg_cur= -17.4590p  from=  0.        to=  7.9267u
avg_pow= -12.7980p  from=  0.         to=  7.9267u

        ***** job concluded

   *** monte carlo  index =            616 ***

rtl= 15.6758u  targ= 15.6758u   trig=  0.
avg_cur= -13.8723p  from=  0.        to= 15.6758u
avg_pow=  -9.6207p  from=  0.        to= 15.6758u

        ***** job concluded

   *** monte carlo  index =            617 ***

rtl=  7.4408u  targ=  7.4408u   trig=  0.
avg_cur= -17.7612p  from=  0.        to=  7.4408u
avg_pow= -13.0749p  from=  0.         to=  7.4408u

        ***** job concluded

   *** monte carlo  index =            618 ***

rtl=  9.9460u  targ=  9.9460u   trig=  0.
avg_cur= -16.3325p  from=  0.        to=  9.9460u
```

avg_pow= -11.7790p from= 0.   to= 9.9460u

     ***** job concluded

 *** monte carlo index =   619 ***

rtl= 15.7214u targ= 15.7214u trig= 0.
avg_cur= -13.8561p from= 0.   to= 15.7214u
avg_pow= -9.6068p from= 0.   to= 15.7214u

     ***** job concluded

 *** monte carlo index =   620 ***

rtl= 9.3296u targ= 9.3296u trig= 0.
avg_cur= -16.6587p from= 0.   to= 9.3296u
avg_pow= -12.0721p from= 0.   to= 9.3296u

     ***** job concluded

 *** monte carlo index =   621 ***

rtl= 10.6964u targ= 10.6964u trig= 0.
avg_cur= -15.9508p from= 0.   to= 10.6964u
avg_pow= -11.4378p from= 0.   to= 10.6964u

     ***** job concluded

 *** monte carlo index =   622 ***

rtl= 19.4363u targ= 19.4363u trig= 0.
avg_cur= -12.6722p from= 0.   to= 19.4363u
avg_pow= -8.6037p from= 0.   to= 19.4363u

     ***** job concluded

 *** monte carlo index =   623 ***

rtl= 7.6468u targ= 7.6468u trig= 0.
avg_cur= -17.6311p from= 0.   to= 7.6468u
avg_pow= -12.9555p from= 0.   to= 7.6468u

     ***** job concluded

 *** monte carlo index =   624 ***

rtl= 14.7697u targ= 14.7697u trig= 0.
avg_cur= -14.2047p from= 0.   to= 14.7697u
avg_pow= -9.9067p from= 0.   to= 14.7697u

     ***** job concluded

```
 *** monte carlo  index =            625 ***


rtl= 28.6044u  targ= 28.6044u  trig=  0.
avg_cur= -10.5451p  from=  0.        to=  28.6044u
avg_pow=  -6.8658p  from=  0.        to=  28.6044u


     ***** job concluded


 *** monte carlo  index =            626 ***


rtl= 41.2479u  targ= 41.2479u  trig=  0.
avg_cur=  -8.6464p  from=  0.        to=  41.2479u
avg_pow=  -5.3900p  from=  0.        to=  41.2479u


     ***** job concluded


 *** monte carlo  index =            627 ***


rtl= 17.6021u  targ= 17.6021u  trig=  0.
avg_cur= -13.2245p  from=  0.        to=  17.6021u
avg_pow=  -9.0685p  from=  0.        to=  17.6021u


     ***** job concluded


 *** monte carlo  index =            628 ***


rtl= 12.5432u  targ= 12.5432u  trig=  0.
avg_cur= -15.0983p  from=  0.        to=  12.5432u
avg_pow= -10.6840p  from=  0.         to=  12.5432u


     ***** job concluded


 *** monte carlo  index =            629 ***


rtl= 10.4545u  targ= 10.4545u  trig=  0.
avg_cur= -16.0722p  from=  0.        to=  10.4545u
avg_pow= -11.5461p  from=  0.         to=  10.4545u


     ***** job concluded


 *** monte carlo  index =            630 ***


rtl= 14.6556u  targ= 14.6556u  trig=  0.
avg_cur= -14.2479p  from=  0.        to=  14.6556u
avg_pow=  -9.9440p  from=  0.         to=  14.6556u


     ***** job concluded


 *** monte carlo  index =            631 ***


rtl=  8.0250u  targ=  8.0250u  trig=  0.
avg_cur= -17.3997p  from=  0.        to=  8.0250u
```

avg_pow= -12.7439p from= 0.   to= 8.0250u

     ***** job concluded

  *** monte carlo index =   632 ***

rtl= 14.2170u targ= 14.2170u trig= 0.
avg_cur= -14.4162p from= 0.   to= 14.2170u
avg_pow= -10.0896p from= 0.   to= 14.2170u

     ***** job concluded

  *** monte carlo index =   633 ***

rtl= 22.3639u targ= 22.3639u trig= 0.
avg_cur= -11.8915p from= 0.   to= 22.3639u
avg_pow= -7.9560p from= 0.   to= 22.3639u

     ***** job concluded

  *** monte carlo index =   634 ***

rtl= 5.0138u targ= 5.0138u trig= 0.
avg_cur= -19.4805p from= 0.   to= 5.0138u
avg_pow= -14.6745p from= 0.   to= 5.0138u

     ***** job concluded

  *** monte carlo index =   635 ***

rtl= 14.0865u targ= 14.0865u trig= 0.
avg_cur= -14.4671p from= 0.   to= 14.0865u
avg_pow= -10.1336p from= 0.   to= 14.0865u

     ***** job concluded

  *** monte carlo index =   636 ***

rtl= 5.9643u targ= 5.9643u trig= 0.
avg_cur= -18.7702p from= 0.   to= 5.9643u
avg_pow= -14.0092p from= 0.   to= 5.9643u

     ***** job concluded

  *** monte carlo index =   637 ***

rtl= 10.3515u targ= 10.3515u trig= 0.
avg_cur= -16.1243p from= 0.   to= 10.3515u
avg_pow= -11.5927p from= 0.   to= 10.3515u

     ***** job concluded

```
    *** monte carlo  index =              638 ***

rtl=  19.3067u  targ=  19.3067u   trig=  0.
avg_cur= -12.7094p  from=  0.          to=  19.3067u
avg_pow=  -8.6348p  from=  0.           to=  19.3067u

        ***** job concluded

  *** monte carlo  index =              639 ***

rtl=   9.1197u  targ=   9.1197u   trig=  0.
avg_cur= -16.7729p  from=  0.          to=   9.1197u
avg_pow= -12.1751p  from=  0.           to=   9.1197u

        ***** job concluded

  *** monte carlo  index =              640 ***

rtl=  13.7501u  targ=  13.7501u   trig=  0.
avg_cur= -14.5998p  from=  0.          to=  13.7501u
avg_pow= -10.2488p  from=  0.           to=  13.7501u

        ***** job concluded

  *** monte carlo  index =              641 ***

rtl=  17.4426u  targ=  17.4426u   trig=  0.
avg_cur= -13.2754p  from=  0.          to=  17.4426u
avg_pow=  -9.1117p  from=  0.           to=  17.4426u

        ***** job concluded

  *** monte carlo  index =              642 ***

rtl=   9.7890u  targ=   9.7890u  trig=  0.
avg_cur= -16.4144p  from=  0.          to=   9.7890u
avg_pow= -11.8524p  from=  0.           to=   9.7890u

        ***** job concluded

  *** monte carlo  index =              643 ***

rtl=  12.7870u  targ=  12.7870u   trig=  0.
avg_cur= -14.9944p  from=  0.          to=  12.7870u
avg_pow= -10.5930p  from=  0.           to=  12.7870u

        ***** job concluded

  *** monte carlo  index =              644 ***

rtl=  17.7710u  targ=  17.7710u   trig=  0.
avg_cur= -13.1711p  from=  0.          to=  17.7710u
```

avg_pow= -9.0234p from= 0.   to= 17.7710u

  ***** job concluded

 *** monte carlo index =   645 ***

rtl= 9.2645u targ= 9.2645u trig= 0.
avg_cur= -16.6940p from= 0.   to= 9.2645u
avg_pow= -12.1039p from= 0.   to= 9.2645u

  ***** job concluded

 *** monte carlo index =   646 ***

rtl= 20.5182u targ= 20.5182u trig= 0.
avg_cur= -12.3710p from= 0.   to= 20.5182u
avg_pow= -8.3525p from= 0.   to= 20.5182u

  ***** job concluded

 *** monte carlo index =   647 ***

rtl= 19.8223u targ= 19.8223u trig= 0.
avg_cur= -12.5629p from= 0.   to= 19.8223u
avg_pow= -8.5124p from= 0.   to= 19.8223u

  ***** job concluded

 *** monte carlo index =   648 ***

rtl= 11.6021u targ= 11.6021u trig= 0.
avg_cur= -15.5166p from= 0.   to= 11.6021u
avg_pow= -11.0524p from= 0.   to= 11.6021u

  ***** job concluded

 *** monte carlo index =   649 ***

rtl= 12.2433u targ= 12.2433u trig= 0.
avg_cur= -15.2284p from= 0.   to= 12.2433u
avg_pow= -10.7983p from= 0.   to= 12.2433u

  ***** job concluded

 *** monte carlo index =   650 ***

rtl= 25.3143u targ= 25.3143u trig= 0.
avg_cur= -11.2089p from= 0.   to= 25.3143u
avg_pow= -7.3989p from= 0.   to= 25.3143u

  ***** job concluded

```
  *** monte carlo  index =            651 ***

rtl= 14.3371u  targ= 14.3371u   trig=  0.
avg_cur= -14.3698p  from=  0.          to= 14.3371u
avg_pow= -10.0493p  from=  0.           to= 14.3371u

      ***** job concluded

  *** monte carlo  index =            652 ***

rtl= 21.3024u  targ= 21.3024u   trig=  0.
avg_cur= -12.1621p  from=  0.          to= 21.3024u
avg_pow=  -8.1793p  from=  0.           to= 21.3024u

      ***** job concluded

  *** monte carlo  index =            653 ***

rtl=  4.9747u  targ=  4.9747u  trig=  0.
avg_cur= -19.5112p  from=  0.          to=  4.9747u
avg_pow= -14.7035p  from=  0.           to=  4.9747u

      ***** job concluded

  *** monte carlo  index =            654 ***

rtl= 16.8064u  targ= 16.8064u   trig=  0.
avg_cur= -13.4832p  from=  0.          to= 16.8064u
avg_pow=  -9.2882p  from=  0.           to= 16.8064u

      ***** job concluded

  *** monte carlo  index =            655 ***

rtl= 21.4736u  targ= 21.4736u   trig=  0.
avg_cur= -12.1175p  from=  0.          to= 21.4736u
avg_pow=  -8.1423p  from=  0.          to= 21.4736u

      ***** job concluded

  *** monte carlo  index =            656 ***

rtl=  8.5906u  targ=  8.5906u  trig=  0.
avg_cur= -17.0687p  from=  0.          to=  8.5906u
avg_pow= -12.4428p  from=  0.          to=  8.5906u

      ***** job concluded

  *** monte carlo  index =            657 ***

rtl= 26.2144u  targ= 26.2144u   trig=  0.
avg_cur= -11.0184p  from=  0.          to= 26.2144u
```

avg_pow= -7.2451p from= 0.   to= 26.2144u

    ***** job concluded

  *** monte carlo index =   658 ***

rtl= 20.0098u targ= 20.0098u trig= 0.
avg_cur= -12.5106p from= 0.   to= 20.0098u
avg_pow= -8.4687p from= 0.   to= 20.0098u

    ***** job concluded

  *** monte carlo index =   659 ***

rtl= 16.3532u targ= 16.3532u trig= 0.
avg_cur= -13.6360p from= 0.   to= 16.3532u
avg_pow= -9.4185p from= 0.   to= 16.3532u

    ***** job concluded

  *** monte carlo index =   660 ***

rtl= 10.2966u targ= 10.2966u trig= 0.
avg_cur= -16.1522p from= 0.   to= 10.2966u
avg_pow= -11.6176p from= 0.   to= 10.2966u

    ***** job concluded

  *** monte carlo index =   661 ***

rtl= 22.2888u targ= 22.2888u trig= 0.
avg_cur= -11.9101p from= 0.   to= 22.2888u
avg_pow= -7.9713p from= 0.   to= 22.2888u

    ***** job concluded

  *** monte carlo index =   662 ***

rtl= 14.6519u targ= 14.6519u trig= 0.
avg_cur= -14.2493p from= 0.   to= 14.6519u
avg_pow= -9.9452p from= 0.   to= 14.6519u

    ***** job concluded

  *** monte carlo index =   663 ***

rtl= 22.9543u targ= 22.9543u trig= 0.
avg_cur= -11.7468p from= 0.   to= 22.9543u
avg_pow= -7.8372p from= 0.   to= 22.9543u

    ***** job concluded

```
   *** monte carlo  index =              664 ***

rtl=  9.2451u  targ=  9.2451u   trig=  0.
avg_cur= -16.7045p  from=  0.          to=  9.2451u
avg_pow= -12.1134p  from=  0.           to=  9.2451u

       ***** job concluded

  *** monte carlo  index =              665 ***

rtl=  28.0299u  targ=  28.0299u   trig=  0.
avg_cur= -10.6547p  from=  0.          to=  28.0299u
avg_pow=  -6.9532p  from=  0.           to=  28.0299u

       ***** job concluded

  *** monte carlo  index =              666 ***

rtl=  18.3992u  targ=  18.3992u   trig=  0.
avg_cur= -12.9773p  from=  0.          to=  18.3992u
avg_pow=  -8.8598p  from=  0.           to=  18.3992u

       ***** job concluded

  *** monte carlo  index =              667 ***

rtl=  4.5095u  targ=  4.5095u   trig=  0.
avg_cur= -19.8872p  from=  0.          to=  4.5095u
avg_pow= -15.0590p  from=  0.           to=  4.5095u

       ***** job concluded

  *** monte carlo  index =              668 ***

rtl=  21.0724u  targ=  21.0724u   trig=  0.
avg_cur= -12.2226p  from=  0.          to=  21.0724u
avg_pow=  -8.2294p  from=  0.          to=  21.0724u

       ***** job concluded

  *** monte carlo  index =              669 ***

rtl=  7.1182u  targ=  7.1182u   trig=  0.
avg_cur= -17.9711p  from=  0.          to=  7.1182u
avg_pow= -13.2681p  from=  0.           to=  7.1182u

       ***** job concluded

  *** monte carlo  index =              670 ***

rtl=  17.2158u  targ=  17.2158u   trig=  0.
avg_cur= -13.3487p  from=  0.          to=  17.2158u
```

avg_pow= -9.1738p from= 0.   to= 17.2158u

     ***** job concluded

  *** monte carlo index =   671 ***

rtl= 10.0329u targ= 10.0329u trig= 0.
avg_cur= -16.2875p from= 0.   to= 10.0329u
avg_pow= -11.7386p from= 0.   to= 10.0329u

     ***** job concluded

  *** monte carlo index =   672 ***

rtl= 25.6992u targ= 25.6992u trig= 0.
avg_cur= -11.1266p from= 0.   to= 25.6992u
avg_pow= -7.3323p from= 0.   to= 25.6992u

     ***** job concluded

  *** monte carlo index =   673 ***

rtl= 9.1842u targ= 9.1842u trig= 0.
avg_cur= -16.7376p from= 0.   to= 9.1842u
avg_pow= -12.1432p from= 0.   to= 9.1842u

     ***** job concluded

  *** monte carlo index =   674 ***

rtl= 11.8826u targ= 11.8826u trig= 0.
avg_cur= -15.3888p from= 0.   to= 11.8826u
avg_pow= -10.9395p from= 0.   to= 11.8826u

     ***** job concluded

  *** monte carlo index =   675 ***

rtl= 18.5290u targ= 18.5290u trig= 0.
avg_cur= -12.9382p from= 0.   to= 18.5290u
avg_pow= -8.8269p from= 0.   to= 18.5290u

     ***** job concluded

  *** monte carlo index =   676 ***

rtl= 20.0871u targ= 20.0871u trig= 0.
avg_cur= -12.4891p from= 0.   to= 20.0871u
avg_pow= -8.4508p from= 0.   to= 20.0871u

     ***** job concluded

```
     *** monte carlo  index =              677 ***

rtl=  7.6395u  targ=  7.6395u  trig=  0.
avg_cur= -17.6357p  from=  0.        to=  7.6395u
avg_pow= -12.9597p  from=  0.         to=  7.6395u

       ***** job concluded

  *** monte carlo  index =              678 ***

rtl= 15.2359u  targ= 15.2359u  trig=  0.
avg_cur= -14.0312p  from=  0.        to= 15.2359u
avg_pow=  -9.7572p  from=  0.         to= 15.2359u

       ***** job concluded

  *** monte carlo  index =              679 ***

rtl= 35.8825u  targ= 35.8825u  trig=  0.
avg_cur=  -9.3503p  from=  0.        to= 35.8825u
avg_pow=  -5.9283p  from=  0.         to= 35.8825u

       ***** job concluded

  *** monte carlo  index =              680 ***

rtl= 15.5118u  targ= 15.5118u  trig=  0.
avg_cur= -13.9310p  from=  0.        to= 15.5118u
avg_pow=  -9.6711p  from=  0.         to= 15.5118u

       ***** job concluded

  *** monte carlo  index =              681 ***

rtl= 10.0830u  targ= 10.0830u  trig=  0.
avg_cur= -16.2616p  from=  0.        to= 10.0830u
avg_pow= -11.7155p  from=  0.         to= 10.0830u

       ***** job concluded

  *** monte carlo  index =              682 ***

rtl= 13.9573u  targ= 13.9573u  trig=  0.
avg_cur= -14.5177p  from=  0.        to= 13.9573u
avg_pow= -10.1776p  from=  0.         to= 13.9573u

       ***** job concluded

  *** monte carlo  index =              683 ***

rtl= 27.2962u  targ= 27.2962u  trig=  0.
avg_cur= -10.7984p  from=  0.        to= 27.2962u
```

avg_pow= -7.0682p from= 0.   to= 27.2962u

     ***** job concluded

  *** monte carlo index =   684 ***

rtl= 5.4618u targ= 5.4618u   trig= 0.
avg_cur= -19.1381p from= 0.   to= 5.4618u
avg_pow= -14.3529p from= 0.   to= 5.4618u

     ***** job concluded

  *** monte carlo index =   685 ***

rtl= 17.0710u targ= 17.0710u   trig= 0.
avg_cur= -13.3959p from= 0.   to= 17.0710u
avg_pow= -9.2140p from= 0.   to= 17.0710u

     ***** job concluded

  *** monte carlo index =   686 ***

rtl= 26.4050u targ= 26.4050u   trig= 0.
avg_cur= -10.9790p from= 0.   to= 26.4050u
avg_pow= -7.2133p from= 0.   to= 26.4050u

     ***** job concluded

  *** monte carlo index =   687 ***

rtl= 27.2223u targ= 27.2223u   trig= 0.
avg_cur= -10.8132p from= 0.   to= 27.2223u
avg_pow= -7.0800p from= 0.   to= 27.2223u

     ***** job concluded

  *** monte carlo index =   688 ***

rtl= 19.4291u targ= 19.4291u   trig= 0.
avg_cur= -12.6743p from= 0.   to= 19.4291u
avg_pow= -8.6054p from= 0.   to= 19.4291u

     ***** job concluded

  *** monte carlo index =   689 ***

rtl= 17.9297u targ= 17.9297u   trig= 0.
avg_cur= -13.1214p from= 0.   to= 17.9297u
avg_pow= -8.9814p from= 0.   to= 17.9297u

     ***** job concluded

```
       *** monte carlo  index =              690 ***

rtl=  10.1342u  targ=  10.1342u   trig=   0.
avg_cur= -16.2353p  from=   0.          to=  10.1342u
avg_pow= -11.6919p  from=   0.           to=  10.1342u

        ***** job concluded

  *** monte carlo  index =              691 ***

rtl=  12.1267u  targ=  12.1267u   trig=   0.
avg_cur= -15.2798p  from=   0.          to=  12.1267u
avg_pow= -10.8434p  from=   0.           to=  12.1267u

        ***** job concluded

  *** monte carlo  index =              692 ***

rtl=  19.9270u  targ=  19.9270u   trig=   0.
avg_cur= -12.5336p  from=   0.          to=  19.9270u
avg_pow=  -8.4879p  from=   0.           to=  19.9270u

        ***** job concluded

  *** monte carlo  index =              693 ***

rtl=   8.6988u  targ=   8.6988u   trig=   0.
avg_cur= -17.0072p  from=   0.          to=   8.6988u
avg_pow= -12.3870p  from=   0.           to=   8.6988u

        ***** job concluded

  *** monte carlo  index =              694 ***

rtl=  10.7640u  targ=  10.7640u   trig=   0.
avg_cur= -15.9171p  from=   0.          to=  10.7640u
avg_pow= -11.4078p  from=   0.           to=  10.7640u

        ***** job concluded

  *** monte carlo  index =              695 ***

rtl=  15.0672u  targ=  15.0672u   trig=   0.
avg_cur= -14.0934p  from=   0.          to=  15.0672u
avg_pow=  -9.8107p  from=   0.           to=  15.0672u

        ***** job concluded

  *** monte carlo  index =              696 ***

rtl=   3.1957u  targ=   3.1957u   trig=   0.
avg_cur= -21.0713p  from=   0.          to=   3.1957u
```

avg_pow= -16.1926p from= 0.   to= 3.1957u

     ***** job concluded

  *** monte carlo index =   697 ***

rtl= 17.1234u targ= 17.1234u trig= 0.
avg_cur= -13.3788p from= 0.   to= 17.1234u
avg_pow= -9.1994p from= 0.   to= 17.1234u

     ***** job concluded

  *** monte carlo index =   698 ***

rtl= 7.1231u targ= 7.1231u trig= 0.
avg_cur= -17.9678p from= 0.   to= 7.1231u
avg_pow= -13.2651p from= 0.   to= 7.1231u

     ***** job concluded

  *** monte carlo index =   699 ***

rtl= 11.3657u targ= 11.3657u trig= 0.
avg_cur= -15.6267p from= 0.   to= 11.3657u
avg_pow= -11.1497p from= 0.   to= 11.3657u

     ***** job concluded

  *** monte carlo index =   700 ***

rtl= 12.1094u targ= 12.1094u trig= 0.
avg_cur= -15.2875p from= 0.   to= 12.1094u
avg_pow= -10.8502p from= 0.   to= 12.1094u

     ***** job concluded

  *** monte carlo index =   701 ***

rtl= 7.3686u targ= 7.3686u trig= 0.
avg_cur= -17.8074p from= 0.   to= 7.3686u
avg_pow= -13.1174p from= 0.   to= 7.3686u

     ***** job concluded

  *** monte carlo index =   702 ***

rtl= 15.0015u targ= 15.0015u trig= 0.
avg_cur= -14.1178p from= 0.   to= 15.0015u
avg_pow= -9.8317p from= 0.   to= 15.0015u

     ***** job concluded

```
      *** monte carlo  index =               703 ***

rtl=  13.6632u  targ=  13.6632u   trig=   0.
avg_cur= -14.6344p  from=  0.          to=  13.6632u
avg_pow= -10.2789p  from=  0.           to=  13.6632u

         ***** job concluded

   *** monte carlo  index =               704 ***

rtl=  12.6253u  targ=  12.6253u   trig=   0.
avg_cur= -15.0631p  from=  0.          to=  12.6253u
avg_pow= -10.6531p  from=  0.           to=  12.6253u

         ***** job concluded

   *** monte carlo  index =               705 ***

rtl=  8.0537u  targ=  8.0537u   trig=   0.
avg_cur= -17.3825p  from=  0.          to=  8.0537u
avg_pow= -12.7282p  from=  0.           to=  8.0537u

         ***** job concluded

   *** monte carlo  index =               706 ***

rtl=  9.6882u  targ=  9.6882u   trig=   0.
avg_cur= -16.4674p  from=  0.          to=  9.6882u
avg_pow= -11.9000p  from=  0.           to=  9.6882u

         ***** job concluded

   *** monte carlo  index =               707 ***

rtl=  17.0269u  targ=  17.0269u   trig=   0.
avg_cur= -13.4104p  from=  0.          to=  17.0269u
avg_pow=  -9.2263p  from=  0.           to=  17.0269u

         ***** job concluded

   *** monte carlo  index =               708 ***

rtl=  16.3077u  targ=  16.3077u   trig=   0.
avg_cur= -13.6516p  from=  0.          to=  16.3077u
avg_pow=  -9.4318p  from=  0.           to=  16.3077u

         ***** job concluded

   *** monte carlo  index =               709 ***

rtl=  15.9711u  targ=  15.9711u   trig=   0.
avg_cur= -13.7681p  from=  0.          to=  15.9711u
```

avg_pow= -9.5315p from= 0.   to= 15.9711u

        ***** job concluded

  *** monte carlo index =   710 ***

rtl= 13.9672u targ= 13.9672u trig= 0.
avg_cur= -14.5138p from= 0.   to= 13.9672u
avg_pow= -10.1742p from= 0.   to= 13.9672u

        ***** job concluded

  *** monte carlo index =   711 ***

rtl= 9.4473u targ= 9.4473u trig= 0.
avg_cur= -16.5955p from= 0.   to= 9.4473u
avg_pow= -12.0151p from= 0.   to= 9.4473u

        ***** job concluded

  *** monte carlo index =   712 ***

rtl= 22.2823u targ= 22.2823u trig= 0.
avg_cur= -11.9118p from= 0.   to= 22.2823u
avg_pow= -7.9727p from= 0.   to= 22.2823u

        ***** job concluded

  *** monte carlo index =   713 ***

rtl= 13.7193u targ= 13.7193u trig= 0.
avg_cur= -14.6120p from= 0.   to= 13.7193u
avg_pow= -10.2594p from= 0.   to= 13.7193u

        ***** job concluded

  *** monte carlo index =   714 ***

rtl= 12.5213u targ= 12.5213u trig= 0.
avg_cur= -15.1077p from= 0.   to= 12.5213u
avg_pow= -10.6923p from= 0.   to= 12.5213u

        ***** job concluded

  *** monte carlo index =   715 ***

rtl= 20.0006u targ= 20.0006u trig= 0.
avg_cur= -12.5131p from= 0.   to= 20.0006u
avg_pow= -8.4708p from= 0.   to= 20.0006u

        ***** job concluded

```
     *** monte carlo  index =              716 ***

rtl= 29.9950u  targ= 29.9950u   trig=  0.
avg_cur= -10.2902p  from=  0.         to= 29.9950u
avg_pow=  -6.6634p  from=  0.         to= 29.9950u

        ***** job concluded

  *** monte carlo  index =              717 ***

rtl= 23.0757u  targ= 23.0757u   trig=  0.
avg_cur= -11.7176p  from=  0.         to= 23.0757u
avg_pow=  -7.8133p  from=  0.         to= 23.0757u

        ***** job concluded

  *** monte carlo  index =              718 ***

rtl= 10.3867u  targ= 10.3867u   trig=  0.
avg_cur= -16.1065p  from=  0.         to= 10.3867u
avg_pow= -11.5767p  from=  0.         to= 10.3867u

        ***** job concluded

  *** monte carlo  index =              719 ***

rtl=  9.5060u  targ=  9.5060u   trig=  0.
avg_cur= -16.5641p  from=  0.         to=  9.5060u
avg_pow= -11.9869p  from=  0.         to=  9.5060u

        ***** job concluded

  *** monte carlo  index =              720 ***

rtl=  7.1850u  targ=  7.1850u   trig=  0.
avg_cur= -17.9269p  from=  0.         to=  7.1850u
avg_pow= -13.2274p  from=  0.         to=  7.1850u

        ***** job concluded

  *** monte carlo  index =              721 ***

rtl= 10.9966u  targ= 10.9966u   trig=  0.
avg_cur= -15.8030p  from=  0.         to= 10.9966u
avg_pow= -11.3062p  from=  0.         to= 10.9966u

        ***** job concluded

  *** monte carlo  index =              722 ***

rtl=  9.0932u  targ=  9.0932u   trig=  0.
avg_cur= -16.7874p  from=  0.         to=  9.0932u
```

avg_pow= -12.1882p from= 0.   to= 9.0932u

    ***** job concluded

  *** monte carlo index =   723 ***

rtl= 17.5366u targ= 17.5366u trig= 0.
avg_cur= -13.2453p from= 0.   to= 17.5366u
avg_pow= -9.0862p from= 0.   to= 17.5366u

    ***** job concluded

  *** monte carlo index =   724 ***

rtl= 19.7066u targ= 19.7066u trig= 0.
avg_cur= -12.5955p from= 0.   to= 19.7066u
avg_pow= -8.5395p from= 0.   to= 19.7066u

    ***** job concluded

  *** monte carlo index =   725 ***

rtl= 8.7082u targ= 8.7082u trig= 0.
avg_cur= -17.0019p from= 0.   to= 8.7082u
avg_pow= -12.3822p from= 0.   to= 8.7082u

    ***** job concluded

  *** monte carlo index =   726 ***

rtl= 10.8332u targ= 10.8332u trig= 0.
avg_cur= -15.8829p from= 0.   to= 10.8332u
avg_pow= -11.3773p from= 0.   to= 10.8332u

    ***** job concluded

  *** monte carlo index =   727 ***

rtl= 9.7985u targ= 9.7985u trig= 0.
avg_cur= -16.4094p from= 0.   to= 9.7985u
avg_pow= -11.8480p from= 0.   to= 9.7985u

    ***** job concluded

  *** monte carlo index =   728 ***

rtl= 9.7590u targ= 9.7590u trig= 0.
avg_cur= -16.4301p from= 0.   to= 9.7590u
avg_pow= -11.8665p from= 0.   to= 9.7590u

    ***** job concluded

```
   *** monte carlo  index =             729 ***

rtl=  14.6648u  targ=  14.6648u   trig=   0.
avg_cur= -14.2444p  from=  0.        to=  14.6648u
avg_pow=  -9.9410p  from=  0.         to=  14.6648u

      ***** job concluded

  *** monte carlo  index =             730 ***

rtl=   8.9180u  targ=   8.9180u   trig=   0.
avg_cur= -16.8842p  from=  0.        to=   8.9180u
avg_pow= -12.2756p  from=  0.         to=   8.9180u

      ***** job concluded

  *** monte carlo  index =             731 ***

rtl=  14.0746u  targ=  14.0746u   trig=   0.
avg_cur= -14.4717p  from=  0.        to=  14.0746u
avg_pow= -10.1376p  from=  0.         to=  14.0746u

      ***** job concluded

  *** monte carlo  index =             732 ***

rtl=  10.5040u  targ=  10.5040u   trig=   0.
avg_cur= -16.0472p  from=  0.        to=  10.5040u
avg_pow= -11.5238p  from=  0.         to=  10.5040u

      ***** job concluded

  *** monte carlo  index =             733 ***

rtl=  16.1081u  targ=  16.1081u   trig=   0.
avg_cur= -13.7204p  from=  0.        to=  16.1081u
avg_pow=  -9.4906p  from=  0.         to=  16.1081u

      ***** job concluded

  *** monte carlo  index =             734 ***

rtl=   8.6528u  targ=   8.6528u   trig=   0.
avg_cur= -17.0333p  from=  0.        to=   8.6528u
avg_pow= -12.4106p  from=  0.         to=   8.6528u

      ***** job concluded

  *** monte carlo  index =             735 ***

rtl=  13.7873u  targ=  13.7873u   trig=   0.
avg_cur= -14.5850p  from=  0.        to=  13.7873u
```

avg_pow= -10.2359p from= 0.   to= 13.7873u

     ***** job concluded

  *** monte carlo index =   736 ***

rtl= 18.7308u targ= 18.7308u trig= 0.
avg_cur= -12.8778p from= 0.   to= 18.7308u
avg_pow= -8.7761p from= 0.   to= 18.7308u

     ***** job concluded

  *** monte carlo index =   737 ***

rtl= 10.2835u targ= 10.2835u trig= 0.
avg_cur= -16.1589p from= 0.   to= 10.2835u
avg_pow= -11.6236p from= 0.   to= 10.2835u

     ***** job concluded

  *** monte carlo index =   738 ***

rtl= 17.2331u targ= 17.2331u trig= 0.
avg_cur= -13.3430p from= 0.   to= 17.2331u
avg_pow= -9.1691p from= 0.   to= 17.2331u

     ***** job concluded

  *** monte carlo index =   739 ***

rtl= 15.0519u targ= 15.0519u trig= 0.
avg_cur= -14.0990p from= 0.   to= 15.0519u
avg_pow= -9.8156p from= 0.   to= 15.0519u

     ***** job concluded

  *** monte carlo index =   740 ***

rtl=   4.8887u targ=   4.8887u trig= 0.
avg_cur= -19.5790p from= 0.   to=   4.8887u
avg_pow= -14.7674p from= 0.   to=   4.8887u

     ***** job concluded

  *** monte carlo index =   741 ***

rtl= 13.1094u targ= 13.1094u trig= 0.
avg_cur= -14.8597p from= 0.   to= 13.1094u
avg_pow= -10.4752p from= 0.   to= 13.1094u

     ***** job concluded

```
*** monte carlo  index =           742 ***

rtl= 15.7041u  targ= 15.7041u  trig=  0.
avg_cur= -13.8622p  from=  0.       to= 15.7041u
avg_pow=  -9.6121p  from=  0.        to= 15.7041u

      ***** job concluded

 *** monte carlo  index =           743 ***

rtl= 13.6624u  targ= 13.6624u  trig=  0.
avg_cur= -14.6348p  from=  0.       to= 13.6624u
avg_pow= -10.2792p  from=  0.        to= 13.6624u

      ***** job concluded

 *** monte carlo  index =           744 ***

rtl= 16.2078u  targ= 16.2078u  trig=  0.
avg_cur= -13.6859p  from=  0.       to= 16.2078u
avg_pow=  -9.4611p  from=  0.        to= 16.2078u

      ***** job concluded

 *** monte carlo  index =           745 ***

rtl=  9.0205u  targ=  9.0205u  trig=  0.
avg_cur= -16.8275p  from=  0.       to=  9.0205u
avg_pow= -12.2243p  from=  0.        to=  9.0205u

      ***** job concluded

 *** monte carlo  index =           746 ***

rtl= 13.5390u  targ= 13.5390u  trig=  0.
avg_cur= -14.6843p  from=  0.       to= 13.5390u
avg_pow= -10.3223p  from=  0.        to= 13.5390u

      ***** job concluded

 *** monte carlo  index =           747 ***

rtl= 17.6254u  targ= 17.6254u  trig=  0.
avg_cur= -13.2171p  from=  0.       to= 17.6254u
avg_pow=  -9.0623p  from=  0.        to= 17.6254u

      ***** job concluded

 *** monte carlo  index =           748 ***

rtl= 10.2202u  targ= 10.2202u  trig=  0.
avg_cur= -16.1912p  from=  0.       to= 10.2202u
```

avg_pow= -11.6525p from= 0.   to= 10.2202u

        ***** job concluded

  *** monte carlo index =   749 ***

rtl= 23.6623u targ= 23.6623u trig= 0.
avg_cur= -11.5790p from= 0.   to= 23.6623u
avg_pow= -7.6999p from= 0.   to= 23.6623u

        ***** job concluded

  *** monte carlo index =   750 ***

rtl= 9.5820u targ= 9.5820u trig= 0.
avg_cur= -16.5236p from= 0.   to= 9.5820u
avg_pow= -11.9505p from= 0.   to= 9.5820u

        ***** job concluded

  *** monte carlo index =   751 ***

rtl= 17.9844u targ= 17.9844u trig= 0.
avg_cur= -13.1044p from= 0.   to= 17.9844u
avg_pow= -8.9671p from= 0.   to= 17.9844u

        ***** job concluded

  *** monte carlo index =   752 ***

rtl= 13.6804u targ= 13.6804u trig= 0.
avg_cur= -14.6276p from= 0.   to= 13.6804u
avg_pow= -10.2730p from= 0.   to= 13.6804u

        ***** job concluded

  *** monte carlo index =   753 ***

rtl= 25.2821u targ= 25.2821u trig= 0.
avg_cur= -11.2159p from= 0.   to= 25.2821u
avg_pow= -7.4046p from= 0.   to= 25.2821u

        ***** job concluded

  *** monte carlo index =   754 ***

rtl= 14.1788u targ= 14.1788u trig= 0.
avg_cur= -14.4311p from= 0.   to= 14.1788u
avg_pow= -10.1024p from= 0.   to= 14.1788u

        ***** job concluded

```
     *** monte carlo  index =            755 ***

rtl= 12.7370u  targ= 12.7370u  trig=  0.
avg_cur= -15.0156p  from=  0.         to= 12.7370u
avg_pow= -10.6115p  from=  0.          to= 12.7370u

        ***** job concluded

  *** monte carlo  index =            756 ***

rtl= 10.6455u  targ= 10.6455u  trig=  0.
avg_cur= -15.9762p  from=  0.         to= 10.6455u
avg_pow= -11.4605p  from=  0.          to= 10.6455u

        ***** job concluded

  *** monte carlo  index =            757 ***

rtl= 17.2519u  targ= 17.2519u  trig=  0.
avg_cur= -13.3369p  from=  0.         to= 17.2519u
avg_pow=  -9.1639p  from=  0.          to= 17.2519u

        ***** job concluded

  *** monte carlo  index =            758 ***

rtl= 20.3604u  targ= 20.3604u  trig=  0.
avg_cur= -12.4140p  from=  0.         to= 20.3604u
avg_pow=  -8.3882p  from=  0.          to= 20.3604u

        ***** job concluded

  *** monte carlo  index =            759 ***

rtl= 14.2436u  targ= 14.2436u  trig=  0.
avg_cur= -14.4059p  from=  0.         to= 14.2436u
avg_pow= -10.0806p  from=  0.          to= 14.2436u

        ***** job concluded

  *** monte carlo  index =            760 ***

rtl= 10.0307u  targ= 10.0307u  trig=  0.
avg_cur= -16.2886p  from=  0.         to= 10.0307u
avg_pow= -11.7396p  from=  0.          to= 10.0307u

        ***** job concluded

  *** monte carlo  index =            761 ***

rtl= 26.7786u  targ= 26.7786u  trig=  0.
avg_cur= -10.9025p  from=  0.         to= 26.7786u
```

avg_pow= -7.1518p from= 0.   to= 26.7786u

     ***** job concluded

  *** monte carlo index =   762 ***

rtl= 12.4035u targ= 12.4035u trig= 0.
avg_cur= -15.1586p from= 0.   to= 12.4035u
avg_pow= -10.7369p from= 0.   to= 12.4035u

     ***** job concluded

  *** monte carlo index =   763 ***

rtl= 15.3834u targ= 15.3834u trig= 0.
avg_cur= -13.9774p from= 0.   to= 15.3834u
avg_pow= -9.7110p from= 0.   to= 15.3834u

     ***** job concluded

  *** monte carlo index =   764 ***

rtl= 18.1827u targ= 18.1827u trig= 0.
avg_cur= -13.0433p from= 0.   to= 18.1827u
avg_pow= -8.9154p from= 0.   to= 18.1827u

     ***** job concluded

  *** monte carlo index =   765 ***

rtl= 8.8345u targ= 8.8345u trig= 0.
avg_cur= -16.9308p from= 0.   to= 8.8345u
avg_pow= -12.3178p from= 0.   to= 8.8345u

     ***** job concluded

  *** monte carlo index =   766 ***

rtl= 10.2892u targ= 10.2892u trig= 0.
avg_cur= -16.1560p from= 0.   to= 10.2892u
avg_pow= -11.6210p from= 0.   to= 10.2892u

     ***** job concluded

  *** monte carlo index =   767 ***

rtl= 9.7770u targ= 9.7770u trig= 0.
avg_cur= -16.4207p from= 0.   to= 9.7770u
avg_pow= -11.8581p from= 0.   to= 9.7770u

     ***** job concluded

```
    *** monte carlo  index =               768 ***

rtl=  8.0239u  targ=  8.0239u   trig=  0.
avg_cur= -17.4003p  from=  0.           to=  8.0239u
avg_pow= -12.7445p  from=  0.            to=  8.0239u

        ***** job concluded

   *** monte carlo  index =               769 ***

rtl=  13.1842u  targ=  13.1842u   trig=  0.
avg_cur= -14.8288p  from=  0.           to=  13.1842u
avg_pow= -10.4483p  from=  0.            to=  13.1842u

        ***** job concluded

   *** monte carlo  index =               770 ***

rtl=  16.7386u  targ=  16.7386u   trig=  0.
avg_cur= -13.5059p  from=  0.           to=  16.7386u
avg_pow=  -9.3075p  from=  0.            to=  16.7386u

        ***** job concluded

   *** monte carlo  index =               771 ***

rtl=  7.8961u  targ=  7.8961u   trig=  0.
avg_cur= -17.4775p  from=  0.           to=  7.8961u
avg_pow= -12.8150p  from=  0.            to=  7.8961u

        ***** job concluded

   *** monte carlo  index =               772 ***

rtl=  16.4181u  targ=  16.4181u   trig=  0.
avg_cur= -13.6139p  from=  0.           to=  16.4181u
avg_pow=  -9.3996p  from=  0.           to=  16.4181u

        ***** job concluded

   *** monte carlo  index =               773 ***

rtl=  14.7846u  targ=  14.7846u   trig=  0.
avg_cur= -14.1991p  from=  0.           to=  14.7846u
avg_pow=  -9.9019p  from=  0.            to=  14.7846u

        ***** job concluded

   *** monte carlo  index =               774 ***

rtl=  15.4022u  targ=  15.4022u   trig=  0.
avg_cur= -13.9706p  from=  0.           to=  15.4022u
```

avg_pow= -9.7051p from= 0.   to= 15.4022u

  ***** job concluded

 *** monte carlo index =   775 ***

rtl= 8.3906u targ= 8.3906u trig= 0.
avg_cur= -17.1839p from= 0.   to= 8.3906u
avg_pow= -12.5473p from= 0.   to= 8.3906u

  ***** job concluded

 *** monte carlo index =   776 ***

rtl= 14.9946u targ= 14.9946u trig= 0.
avg_cur= -14.1203p from= 0.   to= 14.9946u
avg_pow= -9.8340p from= 0.   to= 14.9946u

  ***** job concluded

 *** monte carlo index =   777 ***

rtl= 25.8146u targ= 25.8146u trig= 0.
avg_cur= -11.1022p from= 0.   to= 25.8146u
avg_pow= -7.3126p from= 0.   to= 25.8146u

  ***** job concluded

 *** monte carlo index =   778 ***

rtl= 9.8358u targ= 9.8358u trig= 0.
avg_cur= -16.3899p from= 0.   to= 9.8358u
avg_pow= -11.8304p from= 0.   to= 9.8358u

  ***** job concluded

 *** monte carlo index =   779 ***

rtl= 13.8858u targ= 13.8858u trig= 0.
avg_cur= -14.5459p from= 0.   to= 13.8858u
avg_pow= -10.2020p from= 0.   to= 13.8858u

  ***** job concluded

 *** monte carlo index =   780 ***

rtl= 11.3265u targ= 11.3265u trig= 0.
avg_cur= -15.6451p from= 0.   to= 11.3265u
avg_pow= -11.1661p from= 0.   to= 11.3265u

  ***** job concluded

```
        *** monte carlo  index =            781 ***

rtl= 10.6929u  targ= 10.6929u   trig=  0.
avg_cur= -15.9525p  from=  0.         to=  10.6929u
avg_pow= -11.4393p  from=  0.          to=  10.6929u

        ***** job concluded

   *** monte carlo  index =            782 ***

rtl= 11.5686u  targ= 11.5686u   trig=  0.
avg_cur= -15.5321p  from=  0.         to=  11.5686u
avg_pow= -11.0661p  from=  0.          to=  11.5686u

        ***** job concluded

   *** monte carlo  index =            783 ***

rtl= 10.2845u  targ= 10.2845u   trig=  0.
avg_cur= -16.1584p  from=  0.         to=  10.2845u
avg_pow= -11.6231p  from=  0.          to=  10.2845u

        ***** job concluded

   *** monte carlo  index =            784 ***

rtl= 17.6770u  targ= 17.6770u   trig=  0.
avg_cur= -13.2007p  from=  0.         to=  17.6770u
avg_pow=  -9.0485p  from=  0.          to=  17.6770u

        ***** job concluded

   *** monte carlo  index =            785 ***

rtl= 13.7584u  targ= 13.7584u   trig=  0.
avg_cur= -14.5964p  from=  0.         to=  13.7584u
avg_pow= -10.2459p  from=  0.          to=  13.7584u

        ***** job concluded

   *** monte carlo  index =            786 ***

rtl=  7.5222u  targ=  7.5222u   trig=  0.
avg_cur= -17.7094p  from=  0.         to=  7.5222u
avg_pow= -13.0273p  from=  0.          to=  7.5222u

        ***** job concluded

   *** monte carlo  index =            787 ***

rtl=  3.0831u  targ=  3.0831u   trig=  0.
avg_cur= -21.1764p  from=  0.         to=  3.0831u
```

avg_pow= -16.2938p from= 0.   to= 3.0831u

    ***** job concluded

  *** monte carlo index =   788 ***

rtl= 17.1539u targ= 17.1539u trig= 0.
avg_cur= -13.3688p from= 0.   to= 17.1539u
avg_pow= -9.1910p from= 0.   to= 17.1539u

    ***** job concluded

  *** monte carlo index =   789 ***

rtl= 13.9236u targ= 13.9236u trig= 0.
avg_cur= -14.5310p from= 0.   to= 13.9236u
avg_pow= -10.1891p from= 0.   to= 13.9236u

    ***** job concluded

  *** monte carlo index =   790 ***

rtl= 19.5143u targ= 19.5143u trig= 0.
avg_cur= -12.6499p from= 0.   to= 19.5143u
avg_pow= -8.5851p from= 0.   to= 19.5143u

    ***** job concluded

  *** monte carlo index =   791 ***

rtl= 11.4857u targ= 11.4857u trig= 0.
avg_cur= -15.5706p from= 0.   to= 11.4857u
avg_pow= -11.1001p from= 0.   to= 11.4857u

    ***** job concluded

  *** monte carlo index =   792 ***

rtl= 14.6676u targ= 14.6676u trig= 0.
avg_cur= -14.2434p from= 0.   to= 14.6676u
avg_pow= -9.9401p from= 0.   to= 14.6676u

    ***** job concluded

  *** monte carlo index =   793 ***

rtl= 13.6110u targ= 13.6110u trig= 0.
avg_cur= -14.6554p from= 0.   to= 13.6110u
avg_pow= -10.2971p from= 0.   to= 13.6110u

    ***** job concluded

```
   *** monte carlo  index =            794 ***

rtl= 17.8505u  targ= 17.8505u   trig=  0.
avg_cur= -13.1461p  from=  0.        to= 17.8505u
avg_pow= -9.0023p  from=  0.         to= 17.8505u

       ***** job concluded

  *** monte carlo  index =            795 ***

rtl=  8.5669u  targ=  8.5669u   trig=  0.
avg_cur= -17.0822p  from=  0.        to=  8.5669u
avg_pow= -12.4550p  from=  0.         to=  8.5669u

       ***** job concluded

  *** monte carlo  index =            796 ***

rtl=  9.9771u  targ=  9.9771u   trig=  0.
avg_cur= -16.3164p  from=  0.        to=  9.9771u
avg_pow= -11.7645p  from=  0.         to=  9.9771u

       ***** job concluded

  *** monte carlo  index =            797 ***

rtl= 21.6319u  targ= 21.6319u   trig=  0.
avg_cur= -12.0766p  from=  0.        to= 21.6319u
avg_pow= -8.1085p  from=  0.         to= 21.6319u

       ***** job concluded

  *** monte carlo  index =            798 ***

rtl= 13.3427u  targ= 13.3427u   trig=  0.
avg_cur= -14.7639p  from=  0.        to= 13.3427u
avg_pow= -10.3916p  from=  0.         to= 13.3427u

       ***** job concluded

  *** monte carlo  index =            799 ***

rtl= 11.0510u  targ= 11.0510u   trig=  0.
avg_cur= -15.7766p  from=  0.        to= 11.0510u
avg_pow= -11.2828p  from=  0.         to= 11.0510u

       ***** job concluded

  *** monte carlo  index =            800 ***

rtl= 14.9363u  targ= 14.9363u   trig=  0.
avg_cur= -14.1421p  from=  0.        to= 14.9363u
```

avg_pow= -9.8527p from= 0.   to= 14.9363u

     ***** job concluded

  *** monte carlo index =   801 ***

rtl= 23.0883u targ= 23.0883u trig= 0.
avg_cur= -11.7146p from= 0.   to= 23.0883u
avg_pow= -7.8108p from= 0.   to= 23.0883u

     ***** job concluded

  *** monte carlo index =   802 ***

rtl= 22.5160u targ= 22.5160u trig= 0.
avg_cur= -11.8538p from= 0.   to= 22.5160u
avg_pow= -7.9250p from= 0.   to= 22.5160u

     ***** job concluded

  *** monte carlo index =   803 ***

rtl= 11.9545u targ= 11.9545u trig= 0.
avg_cur= -15.3565p from= 0.   to= 11.9545u
avg_pow= -10.9110p from= 0.   to= 11.9545u

     ***** job concluded

  *** monte carlo index =   804 ***

rtl= 12.5130u targ= 12.5130u trig= 0.
avg_cur= -15.1112p from= 0.   to= 12.5130u
avg_pow= -10.6954p from= 0.   to= 12.5130u

     ***** job concluded

  *** monte carlo index =   805 ***

rtl= 14.8828u targ= 14.8828u trig= 0.
avg_cur= -14.1622p from= 0.   to= 14.8828u
avg_pow= -9.8700p from= 0.   to= 14.8828u

     ***** job concluded

  *** monte carlo index =   806 ***

rtl= 12.8305u targ= 12.8305u trig= 0.
avg_cur= -14.9761p from= 0.   to= 12.8305u
avg_pow= -10.5769p from= 0.   to= 12.8305u

     ***** job concluded

```
    *** monte carlo  index =              807 ***

rtl=  6.8720u  targ=  6.8720u   trig=  0.
avg_cur= -18.1368p  from=  0.       to=  6.8720u
avg_pow= -13.4212p  from=  0.        to=  6.8720u

        ***** job concluded

  *** monte carlo  index =              808 ***

rtl=  18.2639u  targ= 18.2639u   trig=  0.
avg_cur= -13.0184p  from=  0.       to= 18.2639u
avg_pow=  -8.8945p  from=  0.        to= 18.2639u

        ***** job concluded

  *** monte carlo  index =              809 ***

rtl=  6.5175u  targ=  6.5175u   trig=  0.
avg_cur= -18.3802p  from=  0.       to=  6.5175u
avg_pow= -13.6466p  from=  0.        to=  6.5175u

        ***** job concluded

  *** monte carlo  index =              810 ***

rtl=  22.3152u  targ= 22.3152u   trig=  0.
avg_cur= -11.9036p  from=  0.       to= 22.3152u
avg_pow=  -7.9659p  from=  0.        to= 22.3152u

        ***** job concluded

  *** monte carlo  index =              811 ***

rtl=  4.9450u  targ=  4.9450u   trig=  0.
avg_cur= -19.5346p  from=  0.       to=  4.9450u
avg_pow= -14.7255p  from=  0.        to=  4.9450u

        ***** job concluded

  *** monte carlo  index =              812 ***

rtl=  17.4536u  targ= 17.4536u   trig=  0.
avg_cur= -13.2719p  from=  0.       to= 17.4536u
avg_pow=  -9.1087p  from=  0.        to= 17.4536u

        ***** job concluded

  *** monte carlo  index =              813 ***

rtl=  7.0521u  targ=  7.0521u   trig=  0.
avg_cur= -18.0151p  from=  0.       to=  7.0521u
```

avg_pow= -13.3087p from= 0.   to= 7.0521u

     ***** job concluded

  *** monte carlo index =   814 ***

rtl= 7.3844u targ= 7.3844u trig= 0.
avg_cur= -17.7973p from= 0.   to= 7.3844u
avg_pow= -13.1081p from= 0.   to= 7.3844u

     ***** job concluded

  *** monte carlo index =   815 ***

rtl= 10.8126u targ= 10.8126u trig= 0.
avg_cur= -15.8931p from= 0.   to= 10.8126u
avg_pow= -11.3864p from= 0.   to= 10.8126u

     ***** job concluded

  *** monte carlo index =   816 ***

rtl= 16.7297u targ= 16.7297u trig= 0.
avg_cur= -13.5088p from= 0.   to= 16.7297u
avg_pow= -9.3100p from= 0.   to= 16.7297u

     ***** job concluded

  *** monte carlo index =   817 ***

rtl= 9.2248u targ= 9.2248u trig= 0.
avg_cur= -16.7155p from= 0.   to= 9.2248u
avg_pow= -12.1233p from= 0.   to= 9.2248u

     ***** job concluded

  *** monte carlo index =   818 ***

rtl= 22.1217u targ= 22.1217u trig= 0.
avg_cur= -11.9520p from= 0.   to= 22.1217u
avg_pow= -8.0058p from= 0.   to= 22.1217u

     ***** job concluded

  *** monte carlo index =   819 ***

rtl= 13.0797u targ= 13.0797u trig= 0.
avg_cur= -14.8720p from= 0.   to= 13.0797u
avg_pow= -10.4859p from= 0.   to= 13.0797u

     ***** job concluded

```
        *** monte carlo  index =              820 ***

rtl=  16.9203u  targ=  16.9203u   trig=   0.
avg_cur= -13.4455p  from=  0.          to=  16.9203u
avg_pow=  -9.2561p  from=  0.          to=  16.9203u

        ***** job concluded

  *** monte carlo  index =              821 ***

rtl=  33.2548u  targ=  33.2548u   trig=   0.
avg_cur=  -9.7443p  from=  0.          to=  33.2548u
avg_pow=  -6.2342p  from=  0.          to=  33.2548u

        ***** job concluded

  *** monte carlo  index =              822 ***

rtl=  9.8179u  targ=  9.8179u   trig=   0.
avg_cur= -16.3993p  from=  0.          to=  9.8179u
avg_pow= -11.8388p  from=  0.          to=  9.8179u

        ***** job concluded

  *** monte carlo  index =              823 ***

rtl=  6.9193u  targ=  6.9193u   trig=   0.
avg_cur= -18.1047p  from=  0.          to=  6.9193u
avg_pow= -13.3915p  from=  0.          to=  6.9193u

        ***** job concluded

  *** monte carlo  index =              824 ***

rtl=  6.3571u  targ=  6.3571u   trig=   0.
avg_cur= -18.4918p  from=  0.          to=  6.3571u
avg_pow= -13.7502p  from=  0.          to=  6.3571u

        ***** job concluded

  *** monte carlo  index =              825 ***

rtl=  12.6082u  targ=  12.6082u   trig=   0.
avg_cur= -15.0704p  from=  0.          to=  12.6082u
avg_pow= -10.6596p  from=  0.          to=  12.6082u

        ***** job concluded

  *** monte carlo  index =              826 ***

rtl=  5.7635u  targ=  5.7635u   trig=   0.
avg_cur= -18.9155p  from=  0.          to=  5.7635u
```

avg_pow= -14.1447p from= 0.   to= 5.7635u

     ***** job concluded

  *** monte carlo index =   827 ***

rtl= 24.1065u targ= 24.1065u trig= 0.
avg_cur= -11.4767p from= 0.   to= 24.1065u
avg_pow= -7.6164p from= 0.   to= 24.1065u

     ***** job concluded

  *** monte carlo index =   828 ***

rtl= 9.9852u targ= 9.9852u trig= 0.
avg_cur= -16.3121p from= 0.   to= 9.9852u
avg_pow= -11.7607p from= 0.   to= 9.9852u

     ***** job concluded

  *** monte carlo index =   829 ***

rtl= 7.2926u targ= 7.2926u trig= 0.
avg_cur= -17.8566p from= 0.   to= 7.2926u
avg_pow= -13.1626p from= 0.   to= 7.2926u

     ***** job concluded

  *** monte carlo index =   830 ***

rtl= 11.1150u targ= 11.1150u trig= 0.
avg_cur= -15.7458p from= 0.   to= 11.1150u
avg_pow= -11.2554p from= 0.   to= 11.1150u

     ***** job concluded

  *** monte carlo index =   831 ***

rtl= 11.9201u targ= 11.9201u trig= 0.
avg_cur= -15.3719p from= 0.   to= 11.9201u
avg_pow= -10.9246p from= 0.   to= 11.9201u

     ***** job concluded

  *** monte carlo index =   832 ***

rtl= 17.5153u targ= 17.5153u trig= 0.
avg_cur= -13.2521p from= 0.   to= 17.5153u
avg_pow= -9.0920p from= 0.   to= 17.5153u

     ***** job concluded

```
       *** monte carlo  index =               833 ***

rtl=  9.3156u  targ=  9.3156u  trig=  0.
avg_cur= -16.6663p  from=  0.         to=  9.3156u
avg_pow= -12.0789p  from=  0.          to=  9.3156u

         ***** job concluded

  *** monte carlo  index =               834 ***

rtl=  3.9768u  targ=  3.9768u  trig=  0.
avg_cur= -20.3505p  from=  0.         to=  3.9768u
avg_pow= -15.5008p  from=  0.          to=  3.9768u

         ***** job concluded

  *** monte carlo  index =               835 ***

rtl=  20.5288u  targ=  20.5288u  trig=  0.
avg_cur= -12.3682p  from=  0.         to=  20.5288u
avg_pow=  -8.3501p  from=  0.          to=  20.5288u

         ***** job concluded

  *** monte carlo  index =               836 ***

rtl=  12.8424u  targ=  12.8424u  trig=  0.
avg_cur= -14.9711p  from=  0.         to=  12.8424u
avg_pow= -10.5726p  from=  0.          to=  12.8424u

         ***** job concluded

  *** monte carlo  index =               837 ***

rtl=  10.5442u  targ=  10.5442u  trig=  0.
avg_cur= -16.0270p  from=  0.         to=  10.5442u
avg_pow= -11.5058p  from=  0.          to=  10.5442u

         ***** job concluded

  *** monte carlo  index =               838 ***

rtl=  16.7365u  targ=  16.7365u  trig=  0.
avg_cur= -13.5066p  from=  0.         to=  16.7365u
avg_pow=  -9.3081p  from=  0.          to=  16.7365u

         ***** job concluded

  *** monte carlo  index =               839 ***

rtl=  2.2760u  targ=  2.2760u  trig=  0.
avg_cur= -21.9478p  from=  0.         to=  2.2760u
```

avg_pow= -17.0380p from= 0.   to=   2.2760u

    ***** job concluded

  *** monte carlo index =   840 ***

rtl= 10.6602u targ= 10.6602u trig=   0.
avg_cur= -15.9689p from= 0.   to= 10.6602u
avg_pow= -11.4539p from= 0.   to= 10.6602u

    ***** job concluded

  *** monte carlo index =   841 ***

rtl= 16.1578u targ= 16.1578u trig=   0.
avg_cur= -13.7032p from= 0.   to= 16.1578u
avg_pow= -9.4759p from= 0.   to= 16.1578u

    ***** job concluded

  *** monte carlo index =   842 ***

rtl= 17.5198u targ= 17.5198u trig=   0.
avg_cur= -13.2507p from= 0.   to= 17.5198u
avg_pow= -9.0907p from= 0.   to= 17.5198u

    ***** job concluded

  *** monte carlo index =   843 ***

rtl= 10.1425u targ= 10.1425u trig=   0.
avg_cur= -16.2310p from= 0.   to= 10.1425u
avg_pow= -11.6881p from= 0.   to= 10.1425u

    ***** job concluded

  *** monte carlo index =   844 ***

rtl= 17.0262u targ= 17.0262u trig=   0.
avg_cur= -13.4106p from= 0.   to= 17.0262u
avg_pow= -9.2265p from= 0.   to= 17.0262u

    ***** job concluded

  *** monte carlo index =   845 ***

rtl= 6.2180u targ= 6.2180u trig= 0.
avg_cur= -18.5896p from= 0.   to= 6.2180u
avg_pow= -13.8411p from= 0.   to= 6.2180u

    ***** job concluded

```
      *** monte carlo  index =              846 ***

rtl= 10.9658u  targ= 10.9658u   trig=  0.
avg_cur= -15.8180p  from=  0.          to= 10.9658u
avg_pow= -11.3195p  from=  0.           to= 10.9658u

        ***** job concluded

   *** monte carlo  index =              847 ***

rtl= 13.8646u  targ= 13.8646u   trig=  0.
avg_cur= -14.5543p  from=  0.          to= 13.8646u
avg_pow= -10.2093p  from=  0.           to= 13.8646u

        ***** job concluded

   *** monte carlo  index =              848 ***

rtl=  6.3792u  targ=  6.3792u  trig=  0.
avg_cur= -18.4764p  from=  0.          to=  6.3792u
avg_pow= -13.7359p  from=  0.           to=  6.3792u

        ***** job concluded

   *** monte carlo  index =              849 ***

rtl= 14.6734u  targ= 14.6734u   trig=  0.
avg_cur= -14.2412p  from=  0.          to= 14.6734u
avg_pow=  -9.9382p  from=  0.           to= 14.6734u

        ***** job concluded

   *** monte carlo  index =              850 ***

rtl=  8.9275u  targ=  8.9275u  trig=  0.
avg_cur= -16.8790p  from=  0.          to=  8.9275u
avg_pow= -12.2709p  from=  0.           to=  8.9275u

        ***** job concluded

   *** monte carlo  index =              851 ***

rtl= 16.2645u  targ= 16.2645u   trig=  0.
avg_cur= -13.6664p  from=  0.          to= 16.2645u
avg_pow=  -9.4445p  from=  0.           to= 16.2645u

        ***** job concluded

   *** monte carlo  index =              852 ***

rtl= 14.1974u  targ= 14.1974u   trig=  0.
avg_cur= -14.4238p  from=  0.          to= 14.1974u
```

avg_pow= -10.0962p from= 0.   to= 14.1974u

     ***** job concluded

  *** monte carlo index =   853 ***

rtl= 20.9012u targ= 20.9012u trig= 0.
avg_cur= -12.2681p from= 0.   to= 20.9012u
avg_pow= -8.2670p from= 0.   to= 20.9012u

     ***** job concluded

  *** monte carlo index =   854 ***

rtl= 23.9763u targ= 23.9763u trig= 0.
avg_cur= -11.5064p from= 0.   to= 23.9763u
avg_pow= -7.6407p from= 0.   to= 23.9763u

     ***** job concluded

  *** monte carlo index =   855 ***

rtl= 11.7416u targ= 11.7416u trig= 0.
avg_cur= -15.4527p from= 0.   to= 11.7416u
avg_pow= -10.9959p from= 0.   to= 11.7416u

     ***** job concluded

  *** monte carlo index =   856 ***

rtl= 8.1481u targ= 8.1481u trig= 0.
avg_cur= -17.3262p from= 0.   to= 8.1481u
avg_pow= -12.6768p from= 0.   to= 8.1481u

     ***** job concluded

  *** monte carlo index =   857 ***

rtl= 21.5428u targ= 21.5428u trig= 0.
avg_cur= -12.0995p from= 0.   to= 21.5428u
avg_pow= -8.1275p from= 0.   to= 21.5428u

     ***** job concluded

  *** monte carlo index =   858 ***

rtl= 12.3861u targ= 12.3861u trig= 0.
avg_cur= -15.1661p from= 0.   to= 12.3861u
avg_pow= -10.7435p from= 0.   to= 12.3861u

     ***** job concluded

```
   *** monte carlo  index =            859 ***

rtl= 10.0578u  targ= 10.0578u  trig=  0.
avg_cur= -16.2746p  from=  0.          to= 10.0578u
avg_pow= -11.7271p  from=  0.          to= 10.0578u

      ***** job concluded

   *** monte carlo  index =            860 ***

rtl= 33.0266u  targ= 33.0266u  trig=  0.
avg_cur= -9.7803p  from=  0.          to= 33.0266u
avg_pow= -6.2624p  from=  0.          to= 33.0266u

      ***** job concluded

   *** monte carlo  index =            861 ***

rtl= 22.8950u  targ= 22.8950u  trig=  0.
avg_cur= -11.7612p  from=  0.          to= 22.8950u
avg_pow= -7.8490p  from=  0.          to= 22.8950u

      ***** job concluded

   *** monte carlo  index =            862 ***

rtl= 20.9040u  targ= 20.9040u  trig=  0.
avg_cur= -12.2673p  from=  0.          to= 20.9040u
avg_pow= -8.2664p  from=  0.          to= 20.9040u

      ***** job concluded

   *** monte carlo  index =            863 ***

rtl= 14.5658u  targ= 14.5658u  trig=  0.
avg_cur= -14.2821p  from=  0.          to= 14.5658u
avg_pow= -9.9735p  from=  0.          to= 14.5658u

      ***** job concluded

   *** monte carlo  index =            864 ***

rtl=  8.4230u  targ=  8.4230u  trig=  0.
avg_cur= -17.1651p  from=  0.          to=  8.4230u
avg_pow= -12.5302p  from=  0.          to=  8.4230u

      ***** job concluded

   *** monte carlo  index =            865 ***

rtl= 22.1109u  targ= 22.1109u  trig=  0.
avg_cur= -11.9547p  from=  0.          to= 22.1109u
```

avg_pow= -8.0080p from= 0.   to= 22.1109u

    ***** job concluded

 *** monte carlo index =   866 ***

rtl= 9.0779u targ= 9.0779u   trig= 0.
avg_cur= -16.7959p from= 0.   to= 9.0779u
avg_pow= -12.1958p from= 0.   to= 9.0779u

    ***** job concluded

 *** monte carlo index =   867 ***

rtl= 16.4617u targ= 16.4617u   trig= 0.
avg_cur= -13.5991p from= 0.   to= 16.4617u
avg_pow= -9.3870p from= 0.   to= 16.4617u

    ***** job concluded

 *** monte carlo index =   868 ***

rtl= 12.7713u targ= 12.7713u   trig= 0.
avg_cur= -15.0011p from= 0.   to= 12.7713u
avg_pow= -10.5988p from= 0.   to= 12.7713u

    ***** job concluded

 *** monte carlo index =   869 ***

rtl= 13.7134u targ= 13.7134u   trig= 0.
avg_cur= -14.6144p from= 0.   to= 13.7134u
avg_pow= -10.2615p from= 0.   to= 13.7134u

    ***** job concluded

 *** monte carlo index =   870 ***

rtl= 4.6195u targ= 4.6195u   trig= 0.
avg_cur= -19.7962p from= 0.   to= 4.6195u
avg_pow= -14.9728p from= 0.   to= 4.6195u

    ***** job concluded

 *** monte carlo index =   871 ***

rtl= 12.6133u targ= 12.6133u   trig= 0.
avg_cur= -15.0683p from= 0.   to= 12.6133u
avg_pow= -10.6577p from= 0.   to= 12.6133u

    ***** job concluded

```
     *** monte carlo  index =            872 ***


rtl=  11.1917u  targ=  11.1917u   trig=   0.
avg_cur= -15.7091p  from=  0.          to=  11.1917u
avg_pow= -11.2228p  from=  0.           to=  11.1917u


       ***** job concluded


  *** monte carlo  index =            873 ***


rtl=  9.6625u  targ=  9.6625u   trig=   0.
avg_cur= -16.4810p  from=  0.          to=  9.6625u
avg_pow= -11.9122p  from=  0.           to=  9.6625u


       ***** job concluded


  *** monte carlo  index =            874 ***


rtl=  13.1461u  targ=  13.1461u   trig=   0.
avg_cur= -14.8445p  from=  0.          to=  13.1461u
avg_pow= -10.4619p  from=  0.           to=  13.1461u


       ***** job concluded


  *** monte carlo  index =            875 ***


rtl=  17.1188u  targ=  17.1188u   trig=   0.
avg_cur= -13.3803p  from=  0.          to=  17.1188u
avg_pow=  -9.2007p  from=  0.           to=  17.1188u


       ***** job concluded


  *** monte carlo  index =            876 ***


rtl=  1.7709u  targ=  1.7709u   trig=   0.
avg_cur= -22.4580p  from=  0.          to=  1.7709u
avg_pow= -17.5342p  from=  0.           to=  1.7709u


       ***** job concluded


  *** monte carlo  index =            877 ***


rtl=  4.2543u  targ=  4.2543u   trig=   0.
avg_cur= -20.1041p  from=  0.          to=  4.2543u
avg_pow= -15.2653p  from=  0.           to=  4.2543u


       ***** job concluded


  *** monte carlo  index =            878 ***


rtl=  21.9685u  targ=  21.9685u   trig=   0.
avg_cur= -11.9906p  from=  0.          to=  21.9685u
```

avg_pow= -8.0376p from= 0.   to= 21.9685u

     ***** job concluded

  *** monte carlo index =   879 ***

rtl= 40.3925u targ= 40.3925u trig= 0.
avg_cur= -8.7505p from= 0.   to= 40.3925u
avg_pow= -5.4689p from= 0.   to= 40.3925u

     ***** job concluded

  *** monte carlo index =   880 ***

rtl= 11.1947u targ= 11.1947u trig= 0.
avg_cur= -15.7077p from= 0.   to= 11.1947u
avg_pow= -11.2215p from= 0.   to= 11.1947u

     ***** job concluded

  *** monte carlo index =   881 ***

rtl= 28.2521u targ= 28.2521u trig= 0.
avg_cur= -10.6120p from= 0.   to= 28.2521u
avg_pow= -6.9191p from= 0.   to= 28.2521u

     ***** job concluded

  *** monte carlo index =   882 ***

rtl= 11.9547u targ= 11.9547u trig= 0.
avg_cur= -15.3564p from= 0.   to= 11.9547u
avg_pow= -10.9109p from= 0.   to= 11.9547u

     ***** job concluded

  *** monte carlo index =   883 ***

rtl= 28.2588u targ= 28.2588u trig= 0.
avg_cur= -10.6107p from= 0.   to= 28.2588u
avg_pow= -6.9181p from= 0.   to= 28.2588u

     ***** job concluded

  *** monte carlo index =   884 ***

rtl= 9.8413u targ= 9.8413u trig= 0.
avg_cur= -16.3870p from= 0.   to= 9.8413u
avg_pow= -11.8278p from= 0.   to= 9.8413u

     ***** job concluded

rtl= 11.3269u targ= 11.3269u   trig= 0.
avg_cur= -15.6449p from= 0.   to= 11.3269u
avg_pow= -11.1659p from= 0.   to= 11.3269u

      ***** job concluded

rtl= 13.8252u targ= 13.8252u   trig= 0.
avg_cur= -14.5699p from= 0.   to= 13.8252u
avg_pow= -10.2228p from= 0.   to= 13.8252u

      ***** job concluded

rtl= 16.0146u targ= 16.0146u   trig= 0.
avg_cur= -13.7529p from= 0.   to= 16.0146u
avg_pow= -9.5184p from= 0.   to= 16.0146u

      ***** job concluded

rtl=   8.6945u targ=   8.6945u   trig= 0.
avg_cur= -17.0097p from= 0.   to=   8.6945u
avg_pow= -12.3892p from= 0.   to=   8.6945u

      ***** job concluded

rtl= 24.7759u targ= 24.7759u   trig= 0.
avg_cur= -11.3265p from= 0.   to= 24.7759u
avg_pow= -7.4942p from= 0.   to= 24.7759u

      ***** job concluded

rtl= 15.0695u targ= 15.0695u   trig= 0.
avg_cur= -14.0925p from= 0.   to= 15.0695u
avg_pow= -9.8100p from= 0.   to= 15.0695u

      ***** job concluded

rtl=   3.1383u targ=   3.1383u   trig= 0.
avg_cur= -21.1248p from= 0.   to=   3.1383u

avg_pow= -16.2441p from= 0.   to= 3.1383u

     ***** job concluded

  *** monte carlo index =   892 ***

rtl= 14.4686u targ= 14.4686u trig= 0.
avg_cur= -14.3192p from= 0.   to= 14.4686u
avg_pow= -10.0056p from= 0.   to= 14.4686u

     ***** job concluded

  *** monte carlo index =   893 ***

rtl= 11.9691u targ= 11.9691u trig= 0.
avg_cur= -15.3499p from= 0.   to= 11.9691u
avg_pow= -10.9052p from= 0.   to= 11.9691u

     ***** job concluded

  *** monte carlo index =   894 ***

rtl= 10.6077u targ= 10.6077u trig= 0.
avg_cur= -15.9951p from= 0.   to= 10.6077u
avg_pow= -11.4773p from= 0.   to= 10.6077u

     ***** job concluded

  *** monte carlo index =   895 ***

rtl= 10.0264u targ= 10.0264u trig= 0.
avg_cur= -16.2909p from= 0.   to= 10.0264u
avg_pow= -11.7416p from= 0.   to= 10.0264u

     ***** job concluded

  *** monte carlo index =   896 ***

rtl= 22.3488u targ= 22.3488u trig= 0.
avg_cur= -11.8952p from= 0.   to= 22.3488u
avg_pow= -7.9591p from= 0.   to= 22.3488u

     ***** job concluded

  *** monte carlo index =   897 ***

rtl= 17.0424u targ= 17.0424u trig= 0.
avg_cur= -13.4053p from= 0.   to= 17.0424u
avg_pow= -9.2219p from= 0.   to= 17.0424u

     ***** job concluded

```
      *** monte carlo  index =               898 ***

rtl=  18.3058u  targ=  18.3058u   trig=   0.
avg_cur= -13.0057p  from=   0.          to=  18.3058u
avg_pow=  -8.8837p  from=   0.          to=  18.3058u

         ***** job concluded

   *** monte carlo  index =               899 ***

rtl=  35.7656u  targ=  35.7656u   trig=   0.
avg_cur=  -9.3670p  from=   0.          to=  35.7656u
avg_pow=  -5.9412p  from=   0.          to=  35.7656u

         ***** job concluded

   *** monte carlo  index =               900 ***

rtl=   9.7746u  targ=   9.7746u   trig=   0.
avg_cur= -16.4220p  from=   0.          to=   9.7746u
avg_pow= -11.8592p  from=   0.          to=   9.7746u

         ***** job concluded

   *** monte carlo  index =               901 ***

rtl=  16.6989u  targ=  16.6989u   trig=   0.
avg_cur= -13.5191p  from=   0.          to=  16.6989u
avg_pow=  -9.3188p  from=   0.          to=  16.6989u

         ***** job concluded

   *** monte carlo  index =               902 ***

rtl=  10.5024u  targ=  10.5024u   trig=   0.
avg_cur= -16.0480p  from=   0.          to=  10.5024u
avg_pow= -11.5245p  from=   0.          to=  10.5024u

         ***** job concluded

   *** monte carlo  index =               903 ***

rtl=  22.7882u  targ=  22.7882u   trig=   0.
avg_cur= -11.7871p  from=   0.          to=  22.7882u
avg_pow=  -7.8702p  from=   0.          to=  22.7882u

         ***** job concluded

   *** monte carlo  index =               904 ***

rtl=  19.4622u  targ=  19.4622u   trig=   0.
avg_cur= -12.6648p  from=   0.          to=  19.4622u
```

avg_pow= -8.5975p from= 0.   to= 19.4622u

        ***** job concluded

  *** monte carlo index =   905 ***

rtl= 11.1528u targ= 11.1528u   trig= 0.
avg_cur= -15.7277p from= 0.   to= 11.1528u
avg_pow= -11.2393p from= 0.   to= 11.1528u

        ***** job concluded

  *** monte carlo index =   906 ***

rtl= 16.5093u targ= 16.5093u   trig= 0.
avg_cur= -13.5829p from= 0.   to= 16.5093u
avg_pow= -9.3732p from= 0.   to= 16.5093u

        ***** job concluded

  *** monte carlo index =   907 ***

rtl= 21.0812u targ= 21.0812u   trig= 0.
avg_cur= -12.2203p from= 0.   to= 21.0812u
avg_pow= -8.2274p from= 0.   to= 21.0812u

        ***** job concluded

  *** monte carlo index =   908 ***

rtl= 10.4783u targ= 10.4783u   trig= 0.
avg_cur= -16.0602p from= 0.   to= 10.4783u
avg_pow= -11.5354p from= 0.   to= 10.4783u

        ***** job concluded

  *** monte carlo index =   909 ***

rtl= 14.6626u targ= 14.6626u   trig= 0.
avg_cur= -14.2453p from= 0.   to= 14.6626u
avg_pow= -9.9417p from= 0.   to= 14.6626u

        ***** job concluded

  *** monte carlo index =   910 ***

rtl= 12.4418u targ= 12.4418u   trig= 0.
avg_cur= -15.1420p from= 0.   to= 12.4418u
avg_pow= -10.7223p from= 0.   to= 12.4418u

        ***** job concluded

```
    *** monte carlo  index =              911 ***

rtl= 10.4808u  targ= 10.4808u   trig=  0.
avg_cur= -16.0589p  from=  0.        to= 10.4808u
avg_pow= -11.5342p  from=  0.         to= 10.4808u

      ***** job concluded

  *** monte carlo  index =              912 ***

rtl= 11.1783u  targ= 11.1783u   trig=  0.
avg_cur= -15.7155p  from=  0.        to= 11.1783u
avg_pow= -11.2285p  from=  0.         to= 11.1783u

      ***** job concluded

  *** monte carlo  index =              913 ***

rtl=  6.3305u  targ=  6.3305u   trig=  0.
avg_cur= -18.5105p  from=  0.        to=  6.3305u
avg_pow= -13.7675p  from=  0.         to=  6.3305u

      ***** job concluded

  *** monte carlo  index =              914 ***

rtl= 20.8181u  targ= 20.8181u   trig=  0.
avg_cur= -12.2903p  from=  0.        to= 20.8181u
avg_pow=  -8.2855p  from=  0.         to= 20.8181u

      ***** job concluded

  *** monte carlo  index =              915 ***

rtl= 32.4078u  targ= 32.4078u   trig=  0.
avg_cur=  -9.8797p  from=  0.        to= 32.4078u
avg_pow=  -6.3401p  from=  0.        to= 32.4078u

      ***** job concluded

  *** monte carlo  index =              916 ***

rtl= 19.5276u  targ= 19.5276u   trig=  0.
avg_cur= -12.6462p  from=  0.        to= 19.5276u
avg_pow=  -8.5819p  from=  0.         to= 19.5276u

      ***** job concluded

  *** monte carlo  index =              917 ***

rtl= 10.5725u  targ= 10.5725u   trig=  0.
avg_cur= -16.0128p  from=  0.        to= 10.5725u
```

avg_pow= -11.4931p from=   0.   to= 10.5725u

     ***** job concluded

  *** monte carlo index =   918 ***

rtl= 11.7710u targ= 11.7710u   trig=   0.
avg_cur= -15.4393p from=   0.   to= 11.7710u
avg_pow= -10.9841p from=   0.   to= 11.7710u

     ***** job concluded

  *** monte carlo index =   919 ***

rtl= 10.1134u targ= 10.1134u   trig=   0.
avg_cur= -16.2460p from=   0.   to= 10.1134u
avg_pow= -11.7015p from=   0.   to= 10.1134u

     ***** job concluded

  *** monte carlo index =   920 ***

rtl=   4.5890u targ=   4.5890u   trig=   0.
avg_cur= -19.8213p from=   0.   to=   4.5890u
avg_pow= -14.9965p from=   0.   to=   4.5890u

     ***** job concluded

  *** monte carlo index =   921 ***

rtl= 14.1818u targ= 14.1818u   trig=   0.
avg_cur= -14.4299p from=   0.   to= 14.1818u
avg_pow= -10.1014p from=   0.   to= 14.1818u

     ***** job concluded

  *** monte carlo index =   922 ***

rtl= 16.2276u targ= 16.2276u   trig=   0.
avg_cur= -13.6791p from=   0.   to= 16.2276u
avg_pow= -9.4553p from=   0.   to= 16.2276u

     ***** job concluded

  *** monte carlo index =   923 ***

rtl= 16.2959u targ= 16.2959u   trig=   0.
avg_cur= -13.6557p from=   0.   to= 16.2959u
avg_pow= -9.4353p from=   0.   to= 16.2959u

     ***** job concluded

```
     *** monte carlo  index =              924 ***


rtl=  9.6738u  targ=  9.6738u  trig=  0.
avg_cur= -16.4750p  from=  0.           to=  9.6738u
avg_pow= -11.9068p  from=  0.            to=  9.6738u


       ***** job concluded


  *** monte carlo  index =              925 ***


rtl=  11.8112u  targ= 11.8112u  trig=  0.
avg_cur= -15.4211p  from=  0.           to=  11.8112u
avg_pow= -10.9680p  from=  0.            to=  11.8112u


       ***** job concluded


  *** monte carlo  index =              926 ***


rtl=  8.5837u  targ=  8.5837u  trig=  0.
avg_cur= -17.0727p  from=  0.           to=  8.5837u
avg_pow= -12.4463p  from=  0.            to=  8.5837u


       ***** job concluded


  *** monte carlo  index =              927 ***


rtl=  27.3642u  targ= 27.3642u  trig=  0.
avg_cur= -10.7849p  from=  0.           to=  27.3642u
avg_pow=  -7.0574p  from=  0.            to=  27.3642u


       ***** job concluded


  *** monte carlo  index =              928 ***


rtl=  10.7177u  targ= 10.7177u  trig=  0.
avg_cur= -15.9402p  from=  0.           to=  10.7177u
avg_pow= -11.4283p  from=  0.            to=  10.7177u


       ***** job concluded


  *** monte carlo  index =              929 ***


rtl=  17.4548u  targ= 17.4548u  trig=  0.
avg_cur= -13.2715p  from=  0.           to=  17.4548u
avg_pow=  -9.1084p  from=  0.            to=  17.4548u


       ***** job concluded


  *** monte carlo  index =              930 ***


rtl=  6.4330u  targ=  6.4330u  trig=  0.
avg_cur= -18.4388p  from=  0.           to=  6.4330u
```

avg_pow= -13.7010p from= 0.   to= 6.4330u

        ***** job concluded

   *** monte carlo index =   931 ***

rtl= 19.1139u targ= 19.1139u trig= 0.
avg_cur= -12.7652p from= 0.   to= 19.1139u
avg_pow= -8.6816p from= 0.   to= 19.1139u

        ***** job concluded

   *** monte carlo index =   932 ***

rtl= 20.0545u targ= 20.0545u trig= 0.
avg_cur= -12.4981p from= 0.   to= 20.0545u
avg_pow= -8.4583p from= 0.   to= 20.0545u

        ***** job concluded

   *** monte carlo index =   933 ***

rtl= 13.1040u targ= 13.1040u trig= 0.
avg_cur= -14.8619p from= 0.   to= 13.1040u
avg_pow= -10.4772p from= 0.   to= 13.1040u

        ***** job concluded

   *** monte carlo index =   934 ***

rtl= 23.8956u targ= 23.8956u trig= 0.
avg_cur= -11.5250p from= 0.   to= 23.8956u
avg_pow= -7.6558p from= 0.   to= 23.8956u

        ***** job concluded

   *** monte carlo index =   935 ***

rtl= 15.6936u targ= 15.6936u trig= 0.
avg_cur= -13.8660p from= 0.   to= 15.6936u
avg_pow= -9.6153p from= 0.   to= 15.6936u

        ***** job concluded

   *** monte carlo index =   936 ***

rtl= 5.9809u targ= 5.9809u trig= 0.
avg_cur= -18.7583p from= 0.   to= 5.9809u
avg_pow= -13.9981p from= 0.   to= 5.9809u

        ***** job concluded

```
     *** monte carlo  index =              937 ***


rtl=  8.5875u  targ=  8.5875u   trig=  0.
avg_cur= -17.0705p  from=  0.          to=   8.5875u
avg_pow= -12.4443p  from=  0.          to=   8.5875u

         ***** job concluded


   *** monte carlo  index =              938 ***


rtl=  11.7925u  targ= 11.7925u   trig=  0.
avg_cur= -15.4296p  from=  0.          to=  11.7925u
avg_pow= -10.9754p  from=  0.          to=  11.7925u

         ***** job concluded


   *** monte carlo  index =              939 ***


rtl=  15.5970u  targ= 15.5970u   trig=  0.
avg_cur= -13.9004p  from=  0.          to=  15.5970u
avg_pow=  -9.6449p  from=  0.          to=  15.5970u

         ***** job concluded


   *** monte carlo  index =              940 ***


rtl=  22.2380u  targ= 22.2380u   trig=  0.
avg_cur= -11.9228p  from=  0.          to=  22.2380u
avg_pow=  -7.9818p  from=  0.          to=  22.2380u

         ***** job concluded


   *** monte carlo  index =              941 ***


rtl=  17.0111u  targ= 17.0111u   trig=  0.
avg_cur= -13.4156p  from=  0.          to=  17.0111u
avg_pow=  -9.2307p  from=  0.          to=  17.0111u

         ***** job concluded


   *** monte carlo  index =              942 ***


rtl=  11.6028u  targ= 11.6028u   trig=  0.
avg_cur= -15.5163p  from=  0.          to=  11.6028u
avg_pow= -11.0521p  from=  0.          to=  11.6028u

         ***** job concluded


   *** monte carlo  index =              943 ***


rtl=  16.4290u  targ= 16.4290u   trig=  0.
avg_cur= -13.6102p  from=  0.          to=  16.4290u
```

avg_pow= -9.3964p from= 0.   to= 16.4290u

      ***** job concluded

  *** monte carlo index =   944 ***

rtl= 6.3639u targ= 6.3639u   trig= 0.
avg_cur= -18.4871p from= 0.   to= 6.3639u
avg_pow= -13.7458p from= 0.   to= 6.3639u

      ***** job concluded

  *** monte carlo index =   945 ***

rtl= 14.7444u targ= 14.7444u   trig= 0.
avg_cur= -14.2143p from= 0.   to= 14.7444u
avg_pow= -9.9150p from= 0.   to= 14.7444u

      ***** job concluded

  *** monte carlo index =   946 ***

rtl= 10.2702u targ= 10.2702u   trig= 0.
avg_cur= -16.1657p from= 0.   to= 10.2702u
avg_pow= -11.6296p from= 0.   to= 10.2702u

      ***** job concluded

  *** monte carlo index =   947 ***

rtl= 7.0587u targ= 7.0587u   trig= 0.
avg_cur= -18.0107p from= 0.   to= 7.0587u
avg_pow= -13.3046p from= 0.   to= 7.0587u

      ***** job concluded

  *** monte carlo index =   948 ***

rtl= 19.0815u targ= 19.0815u   trig= 0.
avg_cur= -12.7747p from= 0.   to= 19.0815u
avg_pow= -8.6895p from= 0.   to= 19.0815u

      ***** job concluded

  *** monte carlo index =   949 ***

rtl= 21.1659u targ= 21.1659u   trig= 0.
avg_cur= -12.1979p from= 0.   to= 21.1659u
avg_pow= -8.2089p from= 0.   to= 21.1659u

      ***** job concluded

```
 *** monte carlo  index =          950 ***

rtl=  12.9009u  targ=  12.9009u   trig=   0.
avg_cur= -14.9465p  from=  0.        to=  12.9009u
avg_pow= -10.5511p  from=  0.         to=  12.9009u

      ***** job concluded

 *** monte carlo  index =          951 ***

rtl=  8.9584u  targ=  8.9584u   trig=   0.
avg_cur= -16.8618p  from=  0.        to=   8.9584u
avg_pow= -12.2554p  from=  0.         to=   8.9584u

      ***** job concluded

 *** monte carlo  index =          952 ***

rtl=  29.0236u  targ=  29.0236u   trig=   0.
avg_cur= -10.4668p  from=  0.        to=  29.0236u
avg_pow=  -6.8035p  from=  0.         to=  29.0236u

      ***** job concluded

 *** monte carlo  index =          953 ***

rtl=  11.4573u  targ=  11.4573u   trig=   0.
avg_cur= -15.5838p  from=  0.        to=  11.4573u
avg_pow= -11.1118p  from=  0.         to=  11.4573u

      ***** job concluded

 *** monte carlo  index =          954 ***

rtl=  21.4061u  targ=  21.4061u   trig=   0.
avg_cur= -12.1350p  from=  0.        to=  21.4061u
avg_pow=  -8.1568p  from=  0.         to=  21.4061u

      ***** job concluded

 *** monte carlo  index =          955 ***

rtl=  7.5648u  targ=  7.5648u   trig=   0.
avg_cur= -17.6825p  from=  0.        to=   7.5648u
avg_pow= -13.0027p  from=  0.         to=   7.5648u

      ***** job concluded

 *** monte carlo  index =          956 ***

rtl=  16.8286u  targ=  16.8286u   trig=   0.
avg_cur= -13.4759p  from=  0.        to=  16.8286u
```

avg_pow= -9.2820p from= 0.   to= 16.8286u

    ***** job concluded

  *** monte carlo index =   957 ***

rtl= 29.1210u targ= 29.1210u trig= 0.
avg_cur= -10.4488p from= 0.   to= 29.1210u
avg_pow= -6.7891p from= 0.   to= 29.1210u

    ***** job concluded

  *** monte carlo index =   958 ***

rtl= 19.4174u targ= 19.4174u trig= 0.
avg_cur= -12.6776p from= 0.   to= 19.4174u
avg_pow= -8.6083p from= 0.   to= 19.4174u

    ***** job concluded

  *** monte carlo index =   959 ***

rtl= 20.1249u targ= 20.1249u trig= 0.
avg_cur= -12.4787p from= 0.   to= 20.1249u
avg_pow= -8.4421p from= 0.   to= 20.1249u

    ***** job concluded

  *** monte carlo index =   960 ***

rtl= 16.3736u targ= 16.3736u trig= 0.
avg_cur= -13.6290p from= 0.   to= 16.3736u
avg_pow= -9.4125p from= 0.   to= 16.3736u

    ***** job concluded

  *** monte carlo index =   961 ***

rtl= 6.8799u targ= 6.8799u trig= 0.
avg_cur= -18.1314p from= 0.   to= 6.8799u
avg_pow= -13.4163p from= 0.   to= 6.8799u

    ***** job concluded

  *** monte carlo index =   962 ***

rtl= 14.1447u targ= 14.1447u trig= 0.
avg_cur= -14.4443p from= 0.   to= 14.1447u
avg_pow= -10.1139p from= 0.   to= 14.1447u

    ***** job concluded

```
   *** monte carlo  index =              963 ***

rtl=  7.5409u  targ=  7.5409u   trig=  0.
avg_cur= -17.6976p  from=  0.        to=  7.5409u
avg_pow= -13.0165p  from=  0.        to=  7.5409u

      ***** job concluded

  *** monte carlo  index =              964 ***

rtl=  10.6444u  targ=  10.6444u   trig=  0.
avg_cur= -15.9768p  from=  0.        to=  10.6444u
avg_pow= -11.4609p  from=  0.        to=  10.6444u

      ***** job concluded

  *** monte carlo  index =              965 ***

rtl=  12.0393u  targ=  12.0393u   trig=  0.
avg_cur= -15.3186p  from=  0.        to=  12.0393u
avg_pow= -10.8776p  from=  0.        to=  12.0393u

      ***** job concluded

  *** monte carlo  index =              966 ***

rtl=  3.2063u  targ=  3.2063u   trig=  0.
avg_cur= -21.0613p  from=  0.        to=  3.2063u
avg_pow= -16.1830p  from=  0.        to=  3.2063u

      ***** job concluded

  *** monte carlo  index =              967 ***

rtl=  5.2333u  targ=  5.2333u   trig=  0.
avg_cur= -19.3109p  from=  0.        to=  5.2333u
avg_pow= -14.5150p  from=  0.        to=  5.2333u

      ***** job concluded

  *** monte carlo  index =              968 ***

rtl=  35.0633u  targ=  35.0633u   trig=  0.
avg_cur= -9.4692p  from=  0.        to=  35.0633u
avg_pow= -6.0203p  from=  0.        to=  35.0633u

      ***** job concluded

  *** monte carlo  index =              969 ***

rtl=  9.0541u  targ=  9.0541u   trig=  0.
avg_cur= -16.8090p  from=  0.        to=  9.0541u
```

avg_pow= -12.2076p from= 0.   to=   9.0541u

      ***** job concluded

  *** monte carlo index =   970 ***

rtl= 10.7478u targ= 10.7478u   trig= 0.
avg_cur= -15.9252p from= 0.   to= 10.7478u
avg_pow= -11.4150p from= 0.   to= 10.7478u

      ***** job concluded

  *** monte carlo index =   971 ***

rtl= 6.0215u targ= 6.0215u   trig= 0.
avg_cur= -18.7292p from= 0.   to= 6.0215u
avg_pow= -13.9710p from= 0.   to=   6.0215u

      ***** job concluded

  *** monte carlo index =   972 ***

rtl= 14.5255u targ= 14.5255u   trig= 0.
avg_cur= -14.2974p from= 0.   to= 14.5255u
avg_pow= -9.9868p from= 0.   to= 14.5255u

      ***** job concluded

  *** monte carlo index =   973 ***

rtl= 16.0097u targ= 16.0097u   trig= 0.
avg_cur= -13.7546p from= 0.   to= 16.0097u
avg_pow= -9.5199p from= 0.   to= 16.0097u

      ***** job concluded

  *** monte carlo index =   974 ***

rtl= 16.0588u targ= 16.0588u   trig= 0.
avg_cur= -13.7375p from= 0.   to= 16.0588u
avg_pow= -9.5053p from= 0.   to= 16.0588u

      ***** job concluded

  *** monte carlo index =   975 ***

rtl= 17.5570u targ= 17.5570u   trig= 0.
avg_cur= -13.2388p from= 0.   to= 17.5570u
avg_pow= -9.0807p from= 0.   to= 17.5570u

      ***** job concluded

```
   *** monte carlo  index =           976 ***

rtl= 16.1920u  targ= 16.1920u   trig=  0.
avg_cur= -13.6914p  from=  0.        to=  16.1920u
avg_pow= -9.4658p  from=  0.         to=  16.1920u

      ***** job concluded

  *** monte carlo  index =           977 ***

rtl= 12.3097u  targ= 12.3097u   trig=  0.
avg_cur= -15.1994p  from=  0.        to=  12.3097u
avg_pow= -10.7727p  from=  0.         to=  12.3097u

      ***** job concluded

  *** monte carlo  index =           978 ***

rtl= 18.6776u  targ= 18.6776u   trig=  0.
avg_cur= -12.8937p  from=  0.        to=  18.6776u
avg_pow= -8.7895p  from=  0.         to=  18.6776u

      ***** job concluded

  *** monte carlo  index =           979 ***

rtl= 12.1879u  targ= 12.1879u   trig=  0.
avg_cur= -15.2528p  from=  0.        to=  12.1879u
avg_pow= -10.8197p  from=  0.         to=  12.1879u

      ***** job concluded

  *** monte carlo  index =           980 ***

rtl= 12.7479u  targ= 12.7479u   trig=  0.
avg_cur= -15.0110p  from=  0.        to=  12.7479u
avg_pow= -10.6075p  from=  0.         to=  12.7479u

      ***** job concluded

  *** monte carlo  index =           981 ***

rtl=  9.8378u  targ=  9.8378u   trig=  0.
avg_cur= -16.3889p  from=  0.        to=  9.8378u
avg_pow= -11.8295p  from=  0.         to=  9.8378u

      ***** job concluded

  *** monte carlo  index =           982 ***

rtl=  7.6042u  targ=  7.6042u   trig=  0.
avg_cur= -17.6578p  from=  0.        to=  7.6042u
```

avg_pow= -12.9800p from= 0.   to= 7.6042u

  ***** job concluded

 *** monte carlo index =   983 ***

rtl= 13.3338u targ= 13.3338u trig= 0.
avg_cur= -14.7675p from= 0.   to= 13.3338u
avg_pow= -10.3948p from= 0.   to= 13.3338u

  ***** job concluded

 *** monte carlo index =   984 ***

rtl= 3.7590u targ= 3.7590u trig= 0.
avg_cur= -20.5501p from= 0.   to= 3.7590u
avg_pow= -15.6922p from= 0.   to= 3.7590u

  ***** job concluded

 *** monte carlo index =   985 ***

rtl= 14.0067u targ= 14.0067u trig= 0.
avg_cur= -14.4983p from= 0.   to= 14.0067u
avg_pow= -10.1607p from= 0.   to= 14.0067u

  ***** job concluded

 *** monte carlo index =   986 ***

rtl= 29.1792u targ= 29.1792u trig= 0.
avg_cur= -10.4380p from= 0.   to= 29.1792u
avg_pow= -6.7806p from= 0.   to= 29.1792u

  ***** job concluded

 *** monte carlo index =   987 ***

rtl= 13.1915u targ= 13.1915u trig= 0.
avg_cur= -14.8258p from= 0.   to= 13.1915u
avg_pow= -10.4456p from= 0.   to= 13.1915u

  ***** job concluded

 *** monte carlo index =   988 ***

rtl= 19.4732u targ= 19.4732u trig= 0.
avg_cur= -12.6617p from= 0.   to= 19.4732u
avg_pow= -8.5949p from= 0.   to= 19.4732u

  ***** job concluded

```
    *** monte carlo  index =            989 ***

rtl=  14.3004u  targ=  14.3004u   trig=   0.
avg_cur= -14.3839p  from=  0.          to=  14.3004u
avg_pow= -10.0616p  from=  0.           to=  14.3004u

       ***** job concluded

   *** monte carlo  index =            990 ***

rtl=  9.8292u  targ=  9.8292u   trig=   0.
avg_cur= -16.3933p  from=  0.          to=  9.8292u
avg_pow= -11.8335p  from=  0.           to=  9.8292u

       ***** job concluded

   *** monte carlo  index =            991 ***

rtl=  20.9357u  targ=  20.9357u   trig=   0.
avg_cur= -12.2589p  from=  0.          to=  20.9357u
avg_pow=  -8.2594p  from=  0.          to=  20.9357u

       ***** job concluded

   *** monte carlo  index =            992 ***

rtl=  18.7352u  targ=  18.7352u   trig=   0.
avg_cur= -12.8765p  from=  0.          to=  18.7352u
avg_pow=  -8.7751p  from=  0.           to=  18.7352u

       ***** job concluded

   *** monte carlo  index =            993 ***

rtl=  21.9805u  targ=  21.9805u   trig=   0.
avg_cur= -11.9876p  from=  0.          to=  21.9805u
avg_pow=  -8.0351p  from=  0.           to=  21.9805u

       ***** job concluded

   *** monte carlo  index =            994 ***

rtl=  13.6495u  targ=  13.6495u   trig=   0.
avg_cur= -14.6399p  from=  0.          to=  13.6495u
avg_pow= -10.2837p  from=  0.           to=  13.6495u

       ***** job concluded

   *** monte carlo  index =            995 ***

rtl=  12.6166u  targ=  12.6166u   trig=   0.
avg_cur= -15.0668p  from=  0.          to=  12.6166u
```

avg_pow= -10.6564p from= 0.   to= 12.6166u

        ***** job concluded

  *** monte carlo index =   996 ***

rtl= 10.2419u targ= 10.2419u trig= 0.
avg_cur= -16.1801p from= 0.   to= 10.2419u
avg_pow= -11.6426p from= 0.   to= 10.2419u

        ***** job concluded

  *** monte carlo index =   997 ***

rtl= 11.7726u targ= 11.7726u trig= 0.
avg_cur= -15.4386p from= 0.   to= 11.7726u
avg_pow= -10.9834p from= 0.   to= 11.7726u

        ***** job concluded

  *** monte carlo index =   998 ***

rtl= 5.3416u targ= 5.3416u trig= 0.
avg_cur= -19.2285p from= 0.   to= 5.3416u
avg_pow= -14.4377p from= 0.   to= 5.3416u

        ***** job concluded

  *** monte carlo index =   999 ***

rtl= 6.1664u targ= 6.1664u trig= 0.
avg_cur= -18.6261p from= 0.   to= 6.1664u
avg_pow= -13.8750p from= 0.   to= 6.1664u

        ***** job concluded

  *** monte carlo index =   1000 ***

rtl= 13.1392u targ= 13.1392u trig= 0.
avg_cur= -14.8474p from= 0.   to= 13.1392u
avg_pow= -10.4645p from= 0.   to= 13.1392u

  meas_variable = rtl
  mean = 14.4048u varian = 44.7907p
  sigma = 6.6926u avgdev = 5.1545u
  max = 55.4823u min   = 1.6039u
   1-sigma = 6.6926u median = 13.2324u

  meas_variable = avg_cur
  mean = -14.8342p varian = 6.084e-24
  sigma = 2.4666p avgdev = 1.9828p
  max = -7.2454p min   = -22.6356p

   1-sigma =   2.4666p median = -14.8090p

  meas_variable = avg_pow
  mean = -10.5019p varian = 4.659e-24
  sigma = 2.1585p avgdev = 1.7317p
  max = -4.3514p min   = -17.7081p
   1-sigma = 2.1585p median = -10.4310p

     ***** job concluded
1****** HSPICE -- P-2019.06-SP2-2 linux64 (Feb 3 2020) ******
******

** dram ptm45nm with supported monte carlo approach

****** job statistics summary tnom= 25.000 temp= 25.000 ******

****** Machine Information ******
CPU:
model name   : Intel(R) Xeon(R) CPU E5-2620 v4 @ 2.10GHz
cpu MHz   : 1200.604

OS:
Linux version 3.10.0-1160.76.1.el7.x86_64 (mockbuild@kbuilder.bsys.centos.org) (gcc version 4.8.5 20150623 (Red Hat 4.8.5-44) (GCC)) #1 SMP Wed Aug 10 16:21:17 UTC 2022

 ****** HSPICE Threads Information ******

 Command Line Threads Count :   1
 Available CPU Count   :   16
 Actual Threads Count   :   1

 ****** Circuit Statistics ******
 # nodes   =   8 # elements =   4
 # resistors =   0 # capacitors =   1 # inductors =   0
 # mutual_inds =   0 # vccs   =   0 # vcvs   =   0
 # cccs   =   0 # ccvs   =   0 # volt_srcs =   2
 # curr_srcs =   0 # diodes   =   0 # bjts   =   0
 # jfets   =   0 # mosfets   =   1 # U elements =   0
 # T elements =   0 # W elements =   0 # B elements =   0
 # S elements =   0 # P elements =   0 # va device =   0
 # vector_srcs =   0 # N elements =   0

 ****** Runtime Statistics (seconds) ******

analysis	time	# points	tot. iter	conv.iter		
op point	0.11	1	3000			
transient	1.57	200001000	206000	103000	rev=	33000
readin	0.01					
errchk	0.01					
setup	0.00					

output   0.03

        peak memory used   344.07 megabytes
        total cpu time   5.10 seconds
        total elapsed time   5.55 seconds
        job started at   15:50:59 05/01/2025
        job ended   at   15:51:04 05/01/2025
        job total runtime   5.55 seconds

lic: Release hspice token(s)
lic: total license checkout elapse time: 0.45(s)