

U400/SPARC2 User Macros

Due to the fact that all users on the U400 and the SPARC2 share the same home directory and macro libraries, it is MSL policy that ***no users are allowed to create or alter macros*** on either of these systems. If you have a need for new macros or suggestions for improving the existing ones, you should discuss it with the MSL staff. We welcome ideas that would facilitate the operation of these instruments.

Note that some macros are system specific and are indicated by (bob) or (carol) respectively. Also note that the following list only contains user macros. Refer to Varian's manual *VNMR Command and Parameter Reference* for information on system macros.

Experiment Setup

name	<i>prompts for input of your fids directory name</i>
mydir	<i>changes current working directory to the above <u>name</u> directory</i>
chdir	<i>equivalent to name and mydir combined</i>
cleanup(exp#) (bob)	<i>prepares specified exp# for a new experiment (default exp# is 2):</i> <pre>delexp(exp#) cexp(exp#) mp(exp#) jexp(exp#)</pre>
quad (bob)	<i>retrieves shimfile QUAD:</i> <pre>rts('QUAD')</pre>
hdec (bob)	<i>sets up 1H homodecoupling (without NOE):</i> <pre>dm='nny' dm='c' homo='y' dpwr=30</pre>
decoff (bob)	<i>turns off the decoupler:</i> <pre>dm='nnn' su</pre>
savefid (bob)	<i>interactive macro for saving data automatically at the end of an acquisition</i> <i>NOTE: you must use au to start the experiment in order to activate this function.</i>
logoff (bob)	<i>sets up standard parameters in experiment 1:</i> <pre>cd jexp1 setup('H1','CDCI3') rts('current shims for probe') lockpower=current default value lockgain=current default value lockphase=current default value plotter='LaserJet_150R' su banner('Please type bye and lock on 1%CHCl3/CDCI3')</pre>

logoff (carol) cd jexpl
 banner('system message')

bye (bob) load='n'
 banner('system message')

Processing and Displaying

proc *processes regular 1D data:*
 wft('nods') f full aph cdc dc ds vsadj dscale

disp *displays regular 1D data:*
 f full aph cdc dc vsadj dscale

ffa f full aph cdc dc

flat cdc dc

zp lp=0 rp=0 (*used when aph fails, manually phase spectrum after using zp*)

p0 nl rl(0)

p7 nl rl(7.26p)

p77 nl rl(77p)

ppmh wp=10p sp=-0.5p

ppmc wp=220p sp=-10p

d nl dres

diff *displays the difference between two cursors in Hz:*
 r1=delta r1?

doi f full
 intmod='partial'
 cz cdc dc
 isadj

ipart intmod='partial'

vsadjcr *adjusts the peak selected by the cursor to full vertical scale, instead of the*
tallest *peak in the current display*

makecutoff *creates the parameter cutoff:*
 create('cutoff')
 setgroup('cutoff','display')
 cutoff?

Plotting and Printing

zeta or **Zeta** *sets plotter to 'Zeta' with correct configuration*

zetaL or **Zeta_L** *sets plotter to 'Zeta_L' with correct configuration*

laser or **Laser** *sets plotter to 'LaserJet_150' with correct configuration*

laserR or **Laser_R** *sets plotter to 'LaserJet_150R' with correct configuration*

printll *prints peak listing in Hz and ppm:*
 printon axis='p' dll axis='h' dll printoff

pll *plots peak listing in Hz and ppm, need to use page*

mpll *plots up to three line listings on one page to LaserJet_150R, see posting for*
details

plot pl pscale pap page

Zplot plotter='Zeta'
 pl pscale pap page

ZLplot plotter='Zeta_L'
 pl pscale pap page

Lplot or **LRplot** plotter='LaserJet_150R'
 pl pscale pap page

plotL pl pscale pll page

plotT pl pscale pltext page

plotLT pl pscale pltext pll page

plotPH or **plotHP** *plots with a scale in ppm and peak picking (on top of spectrum) in Hz*
*NOTE: enter **pap plotPH** if you want parameters as well*

plotA pl('all') pap page

plotAs pl('all') pscale pap page

plotI vp=12 pl pscale pir pap page

printp or **printme** *if array exists:* printon da dg dg1 dgs printoff
otherwise: printon dg dg1 dgs printoff

PP or **pp** plot printp

Experiment-specific Macros

T1 (UVU438, *T1 Measurement on the U400*):

dot1 (bob)

APT (UVU440, *APT on the U400*):

doapt (bob) aptproc aptds aptplot

DEPT (UVU444, *DEPT on the U400*):

dodept (bob) deptproc deptpaph deptds deptplot adeptpp
adeptplot adeptprint

COSY (UVU448, *COSY on the U400*):

docosy (bob) cosyproc cosydisp cosyds cosyplot cosypl

HETCOR (UVU454, *HETCOR on the U400*):

dohetcor (bob) hetcorproc hetcordisp hetcords hetcorplot hetcorpl

Task-specific Macros

Rebooting — for bob only (UVU418, *U400 rebooting Procedures*):

killvnmr startvnmr vnmrboot

ftp — for carol only (UVU414, *U400 Data Transfer via ftp*):

startftp ftpsend ftpget endftp

Optical — for carol only (UVU416, *Using the Optical Drive on the SPARC2*):

formatod mountod checkod ejectod cdod

Tape — for carol only (UVU415, *Storing and Retrieving Data on SPARC2 using Streaming Mag Tape*):

printape

Floppy — for carol only (UVU418, *Storing and Retrieving Data on SPARC2 using Floppies*):

formatf mountf ejectf cp2fp rmfp printfp
readfp