MES SIMULATION

SIGNAL DISPLAY

MES 1

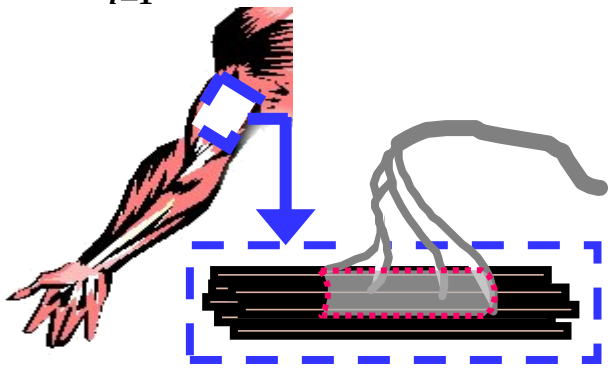
1 ch 9
2 ch 10
3 ch 11
4 ch 12
5 ch 13
6 ch 14
7 ch 15
8 ch 16
ALL

Details
SFAP/MUAP

	SFAP	MUAP	MUAPt	MES
#fibres	10	10	10	10
# MUs	N/A	100	100	100

$$h_{L,R} = \begin{cases} 0, & t > 0 \\ h\left(t \pm d/v\right) & 0 \le t \le t_{L,R} \\ 0, & t < t_{L,R} \end{cases}$$

$$s(t) = \sum_{i=1}^{3} k_i \cdot \left[c_i \cdot (t/2 - m_i)\right] \cdot e^{c_i \left[t/2 - m_i\right]}$$



Parameters

SFAP
MUAP
MUAPt
MES

MP
BP

Average Depth 27 +/- 3 mm
Range 5 min 30 max mm
Distal Termination 120 +/- 5 mm
Proximal Termination 90 +/- 5 mm
IP Dispersion +/- 5 mm
N SFAP 10
M MUAP 100
Conduction Velocity 4 +/- 2 m/s
Duration 1 s
PPS 8 /s

Sampling Frequency 20 kHz
Source Duration 3 ms

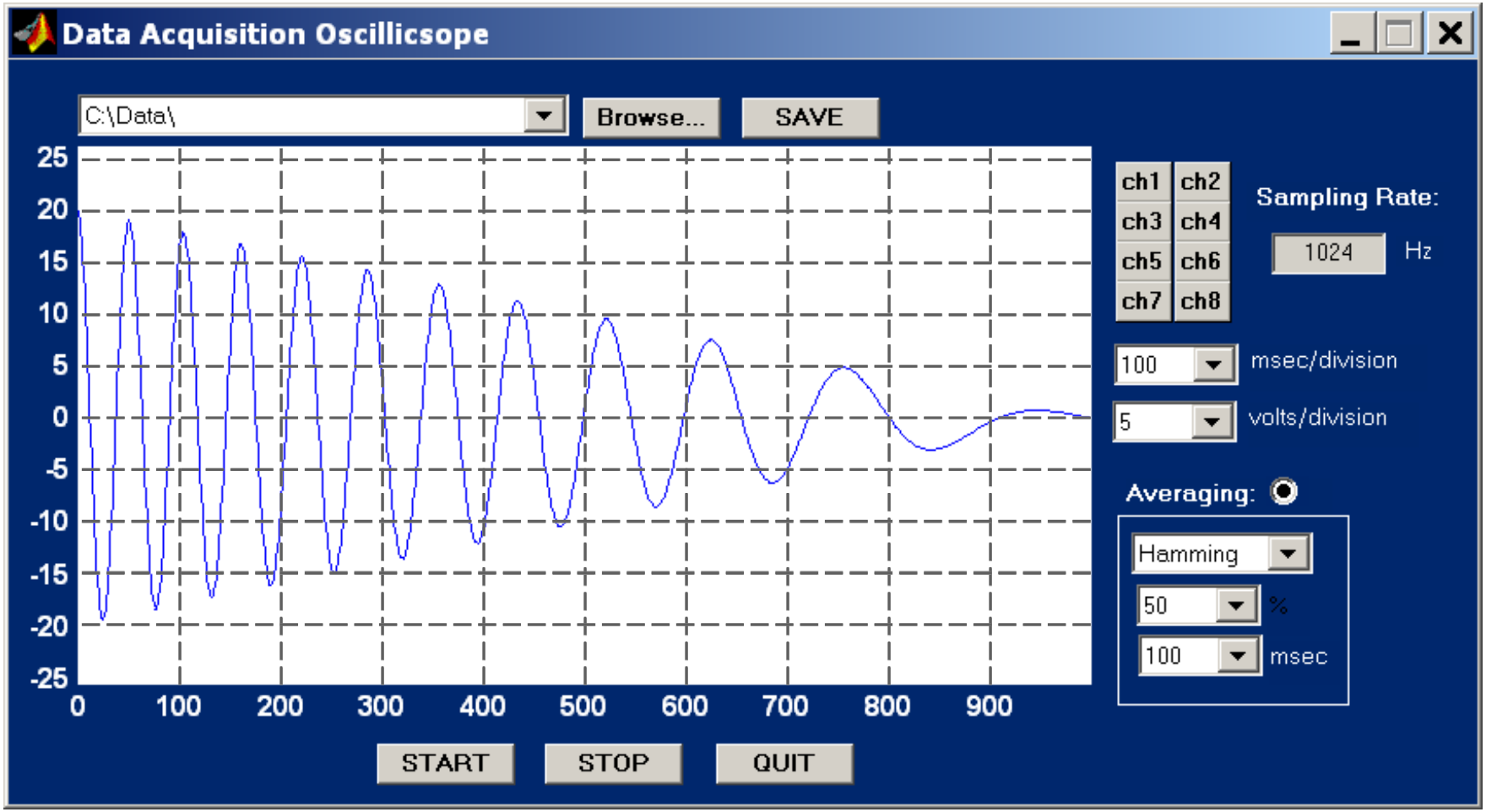
Additional Perspectives

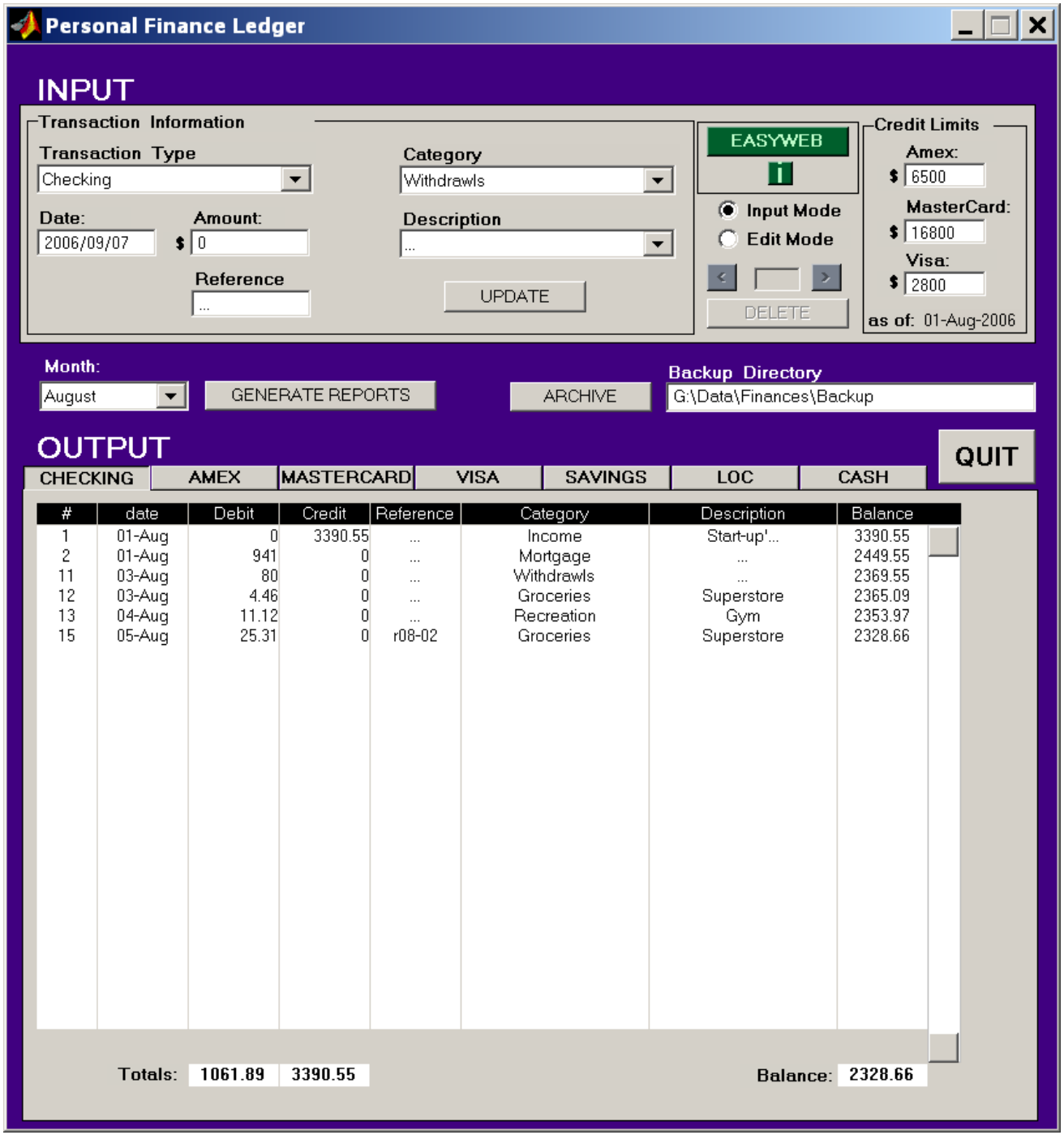
Channel Locations
dist. -70
prox. 80
spacing 10 mm

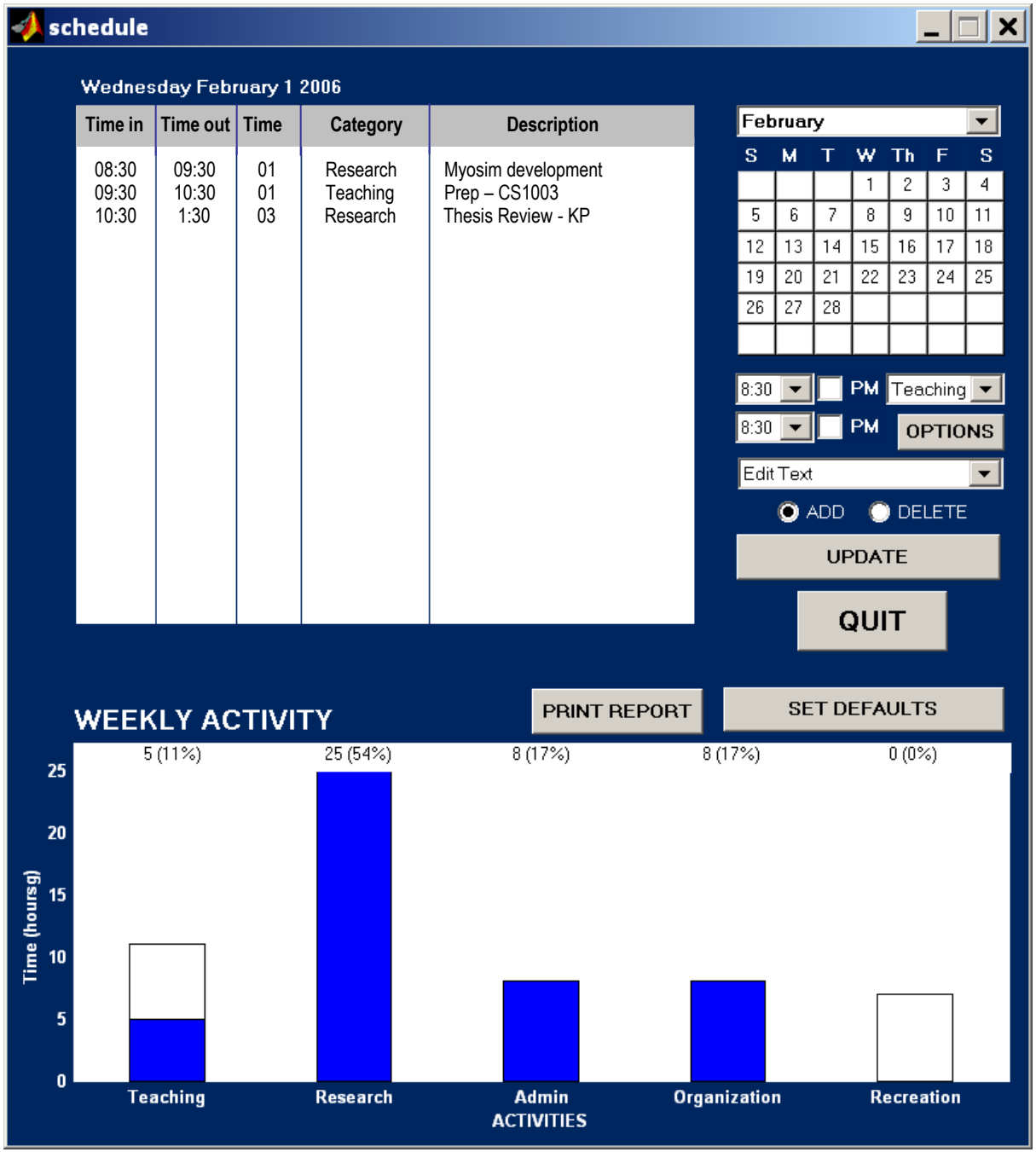
Storage

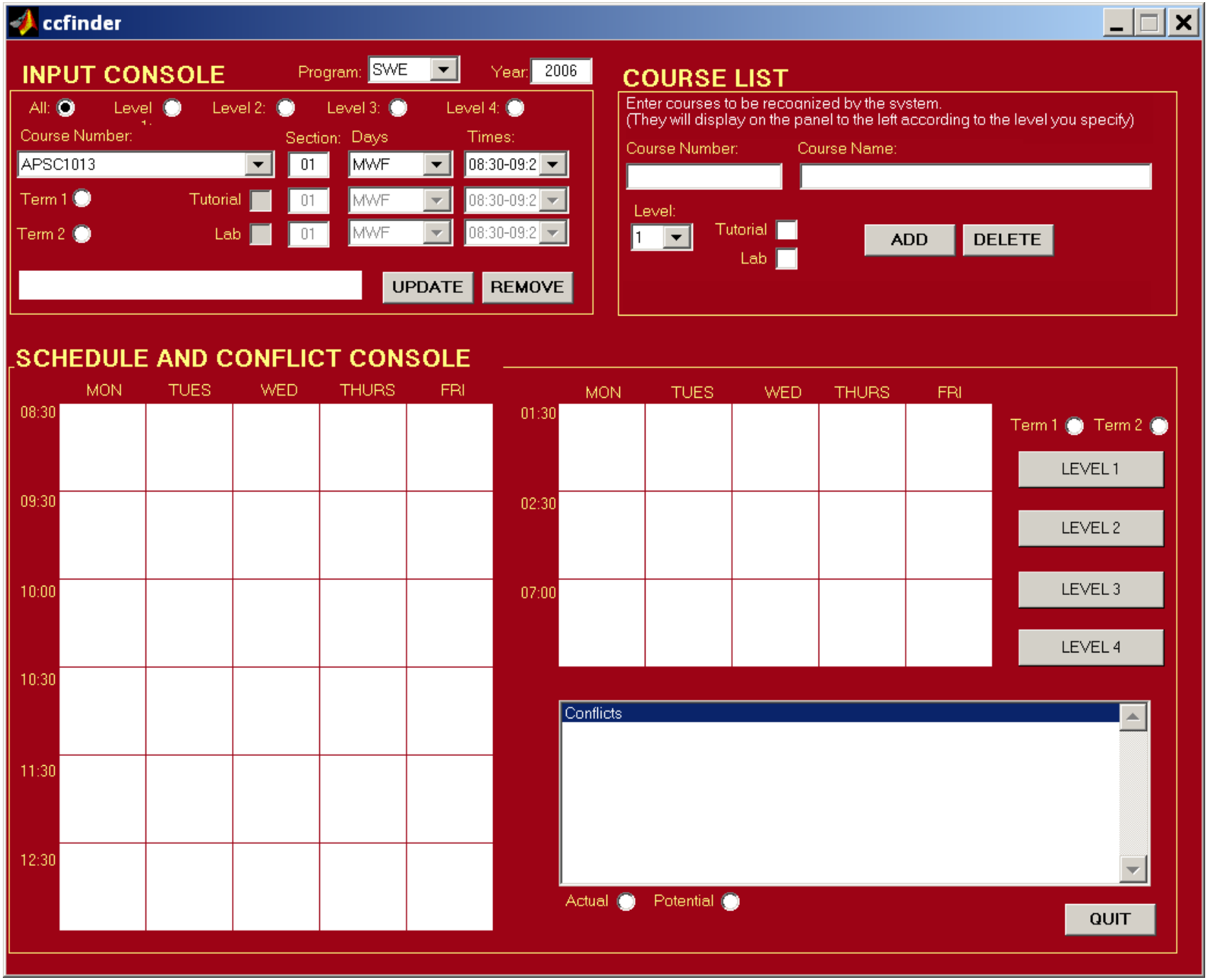
create	save	load	
✔			SFAP
✔			MUAP
✔			MUAPt
✔			MES

GO
STOP
QUIT


Data Acquisition Oscillicsope
C:\Data\
Browse...
SAVE
25
20
15
10
5
0
-5
-10
-15
-20
-25
0
100
200
300
400
500
600
700
800
900
START
STOP
QUIT
ch1
ch2
ch3
ch4
ch5
ch6
ch7
ch8
Sampling Rate:
1024
Hz
100
msec/division
5
volts/division
Averaging:
Hamming
50
%
100
msec


Personal Finance Ledger
INPUT
Transaction Information
Transaction Type
Checking
Category
Withdrawls
Date:
2006/09/07
Amount:
$ 0
Description
...
Reference
...
UPDATE
EASYWEB
Input Mode
Edit Mode
DELETE
Credit Limits
Amex:
$ 6500
MasterCard:
$ 16800
Visa:
$ 2800
as of: 01-Aug-2006
Month:
August
GENERATE REPORTS
ARCHIVE
Backup Directory
G:\Data\Finances\Backup
OUTPUT
QUIT
CHECKING
AMEX
MASTERCARD
VISA
SAVINGS
LOC
CASH
date Debit Credit Reference Category Description Balance
1 01-Aug 0 3390.55 ... Income Start-up'... 3390.55
2 01-Aug 941 0 ... Mortgage ... 2449.55
11 03-Aug 80 0 ... Withdrawls ... 2369.55
12 03-Aug 4.46 0 ... Groceries Superstore 2365.09
13 04-Aug 11.12 0 ... Recreation Gym 2353.97
15 05-Aug 25.31 0 r08-02 Groceries Superstore 2328.66
Totals: 1061.89 3390.55
Balance: 2328.66


schedule
Wednesday February 1 2006
Time in
Time out
Time
Category
Description
08:30
09:30
01
Research
Myosim development
09:30
10:30
01
Teaching
Prep – CS1003
10:30
1:30
03
Research
Thesis Review - KP
February
S M T W Th F S
1 2 3 4
5 6 7 8 9 10 11
12 13 14 15 16 17 18
19 20 21 22 23 24 25
26 27 28
8:30
PM
Teaching
8:30
PM
OPTIONS
Edit Text
ADD
DELETE
UPDATE
QUIT
WEEKLY ACTIVITY
PRINT REPORT
SET DEFAULTS
5 (11%)
25 (54%)
8 (17%)
8 (17%)
0 (0%)
25
20
15
10
5
0
Time (hoursg)
Teaching
Research
Admin
Organization
Recreation
ACTIVITIES


ccfinder
INPUT CONSOLE
Program: SWE
Year: 2006
All:
Level 1:
Level 2:
Level 3:
Level 4:
Course Number:
Section:
Days
Times:
APSC1013
01
MWF
08:30-09:2
Term 1
Tutorial
Term 2
Lab
UPDATE
REMOVE
COURSE LIST
Enter courses to be recognized by the system.
(They will display on the panel to the left according to the level you specify)
Course Number:
Course Name:
Level:
Tutorial
Lab
ADD
DELETE
SCHEDULE AND CONFLICT CONSOLE
MON
TUES
WED
THURS
FRI
08:30
09:30
10:00
10:30
11:30
12:30
01:30
02:30
07:00
Term 1
Term 2
LEVEL 1
LEVEL 2
LEVEL 3
LEVEL 4
Conflicts
Actual
Potential
QUIT

EXAMPLE: You are Monitoring the vibration characteristics of a motor in a centrifuge you designed for a biomedical engineering firm. Using high accuracy sensors, you observed the motor and noted that it vibrates sinusoidally across time 't' according to:

$$V_m(t) = A \cdot sin(\omega t)$$

where 'A' represents the amplitude of the vibration and 'ω' represents the angular speed of vibration. Both of these parameters are dependent on the speed at which the motor rotates. Write a program which lets you input values for the amplitude and speed of vibration and graph the time course of the vibration.