Biomechanical Integration for Sports Analysis
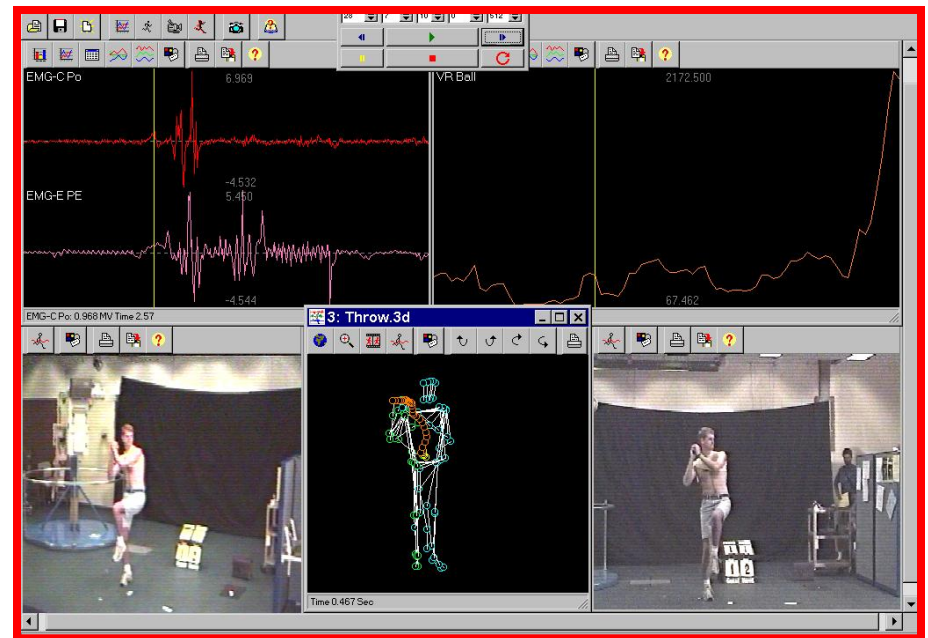
Gideon Ariel[2], Alfred Finch [1], Jan Brönd[2], and Ann Penny[2]

[1]Indiana State University, Terre Haute, Indiana, United States
[2]Ariel Dynamics, San Diego, California, United States

Hardware

- Main Computer System

- Workstations

- Capture Card

- Network
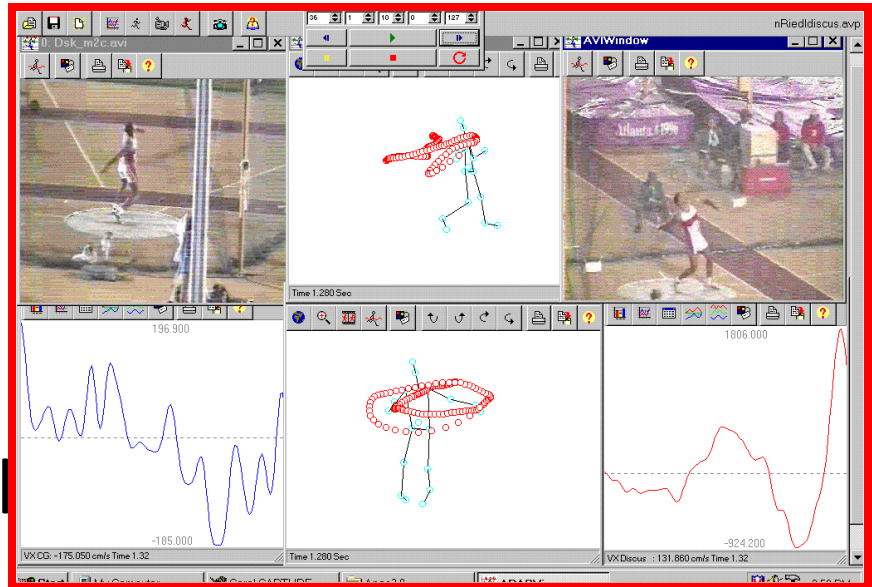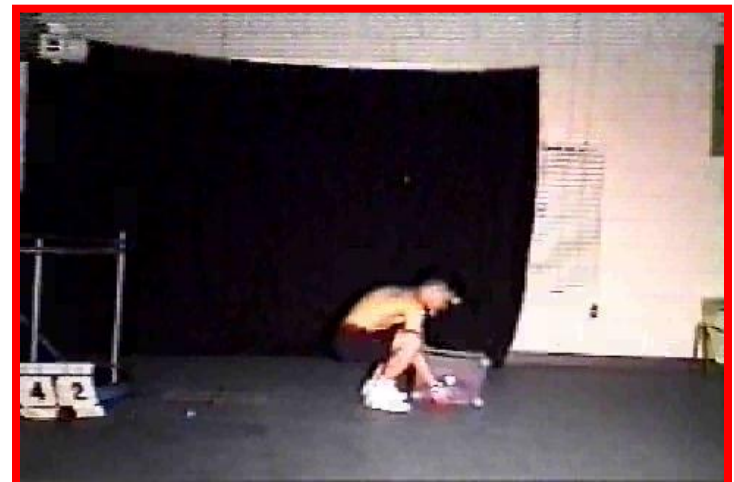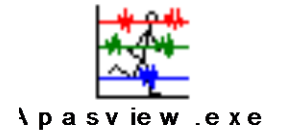 - Intranet
  - Internet

Software Integration

Software Integration

- Capturing
- Digitizing
  - Locally
  - Net Digitizing
- Transformation
- Filtering
- Kinematics Results Disp
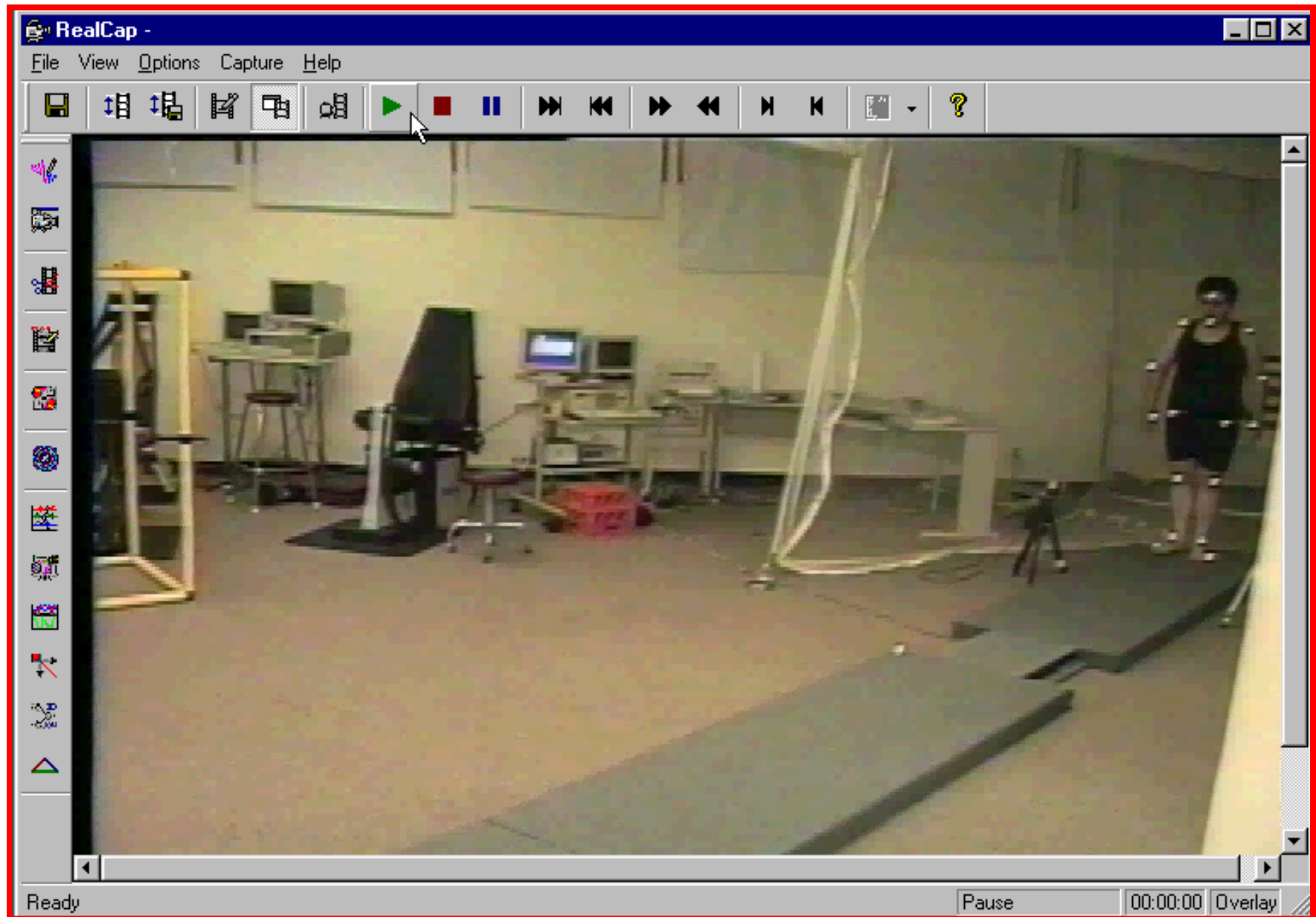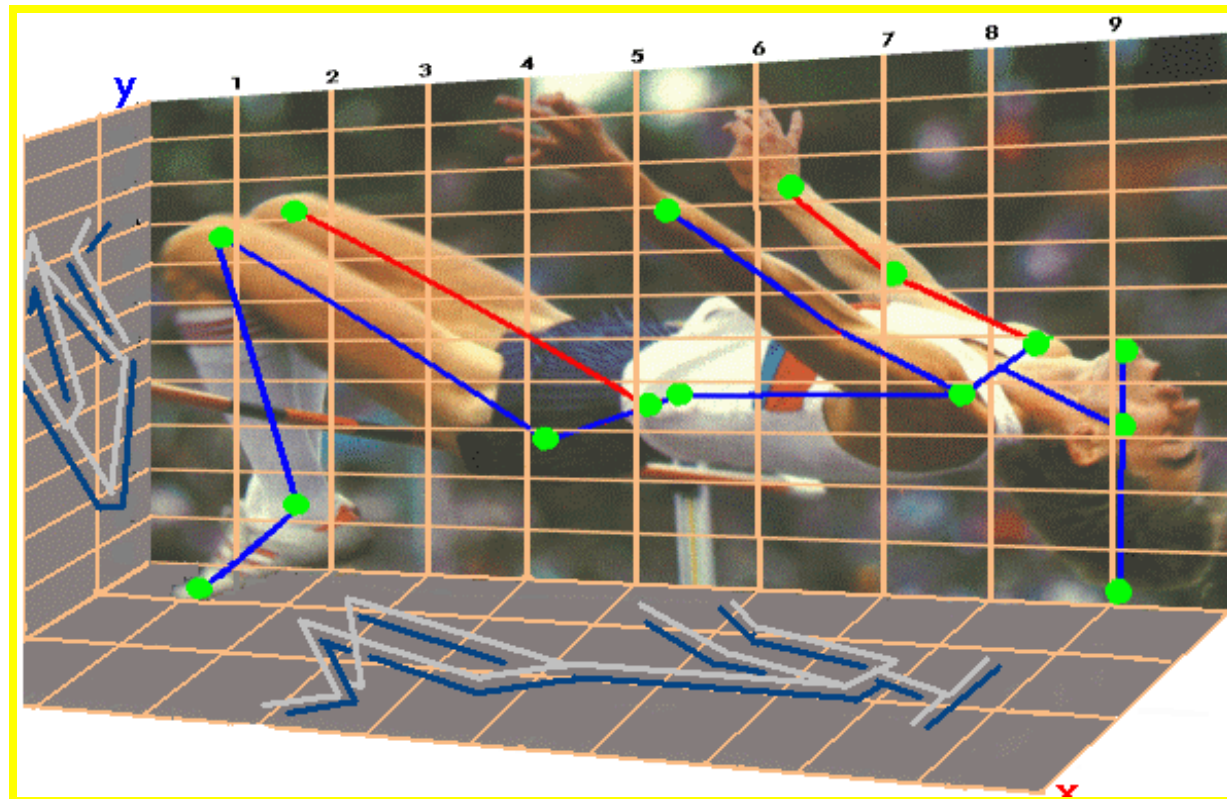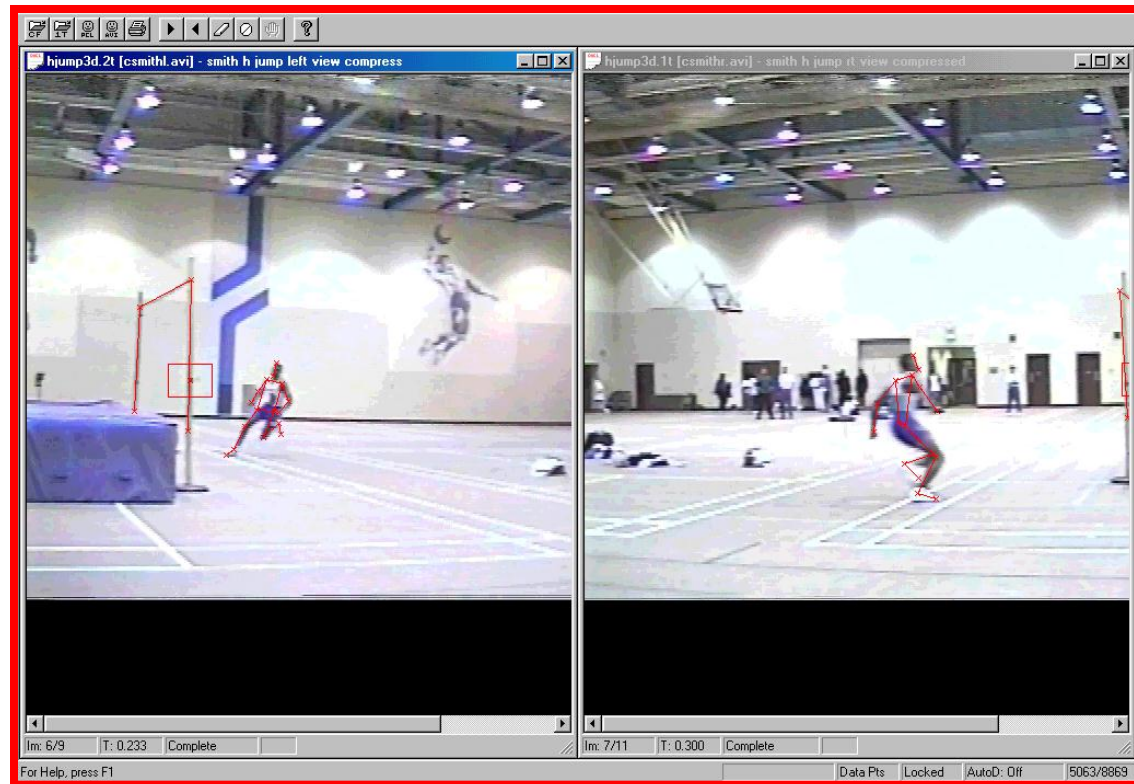- Kinetic Results Display

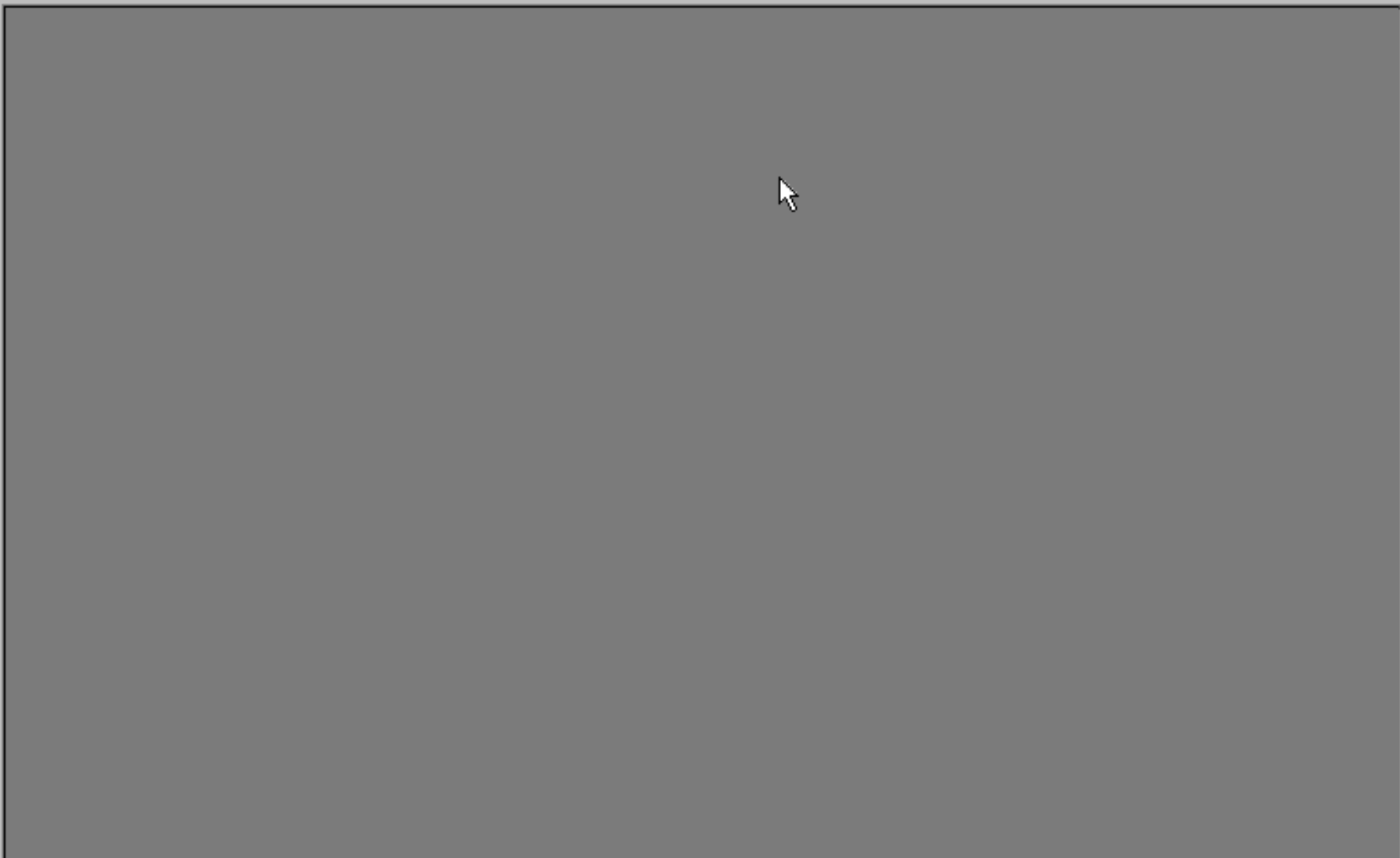# Video Recording

Video Capturing

Digitizing

Digitizing
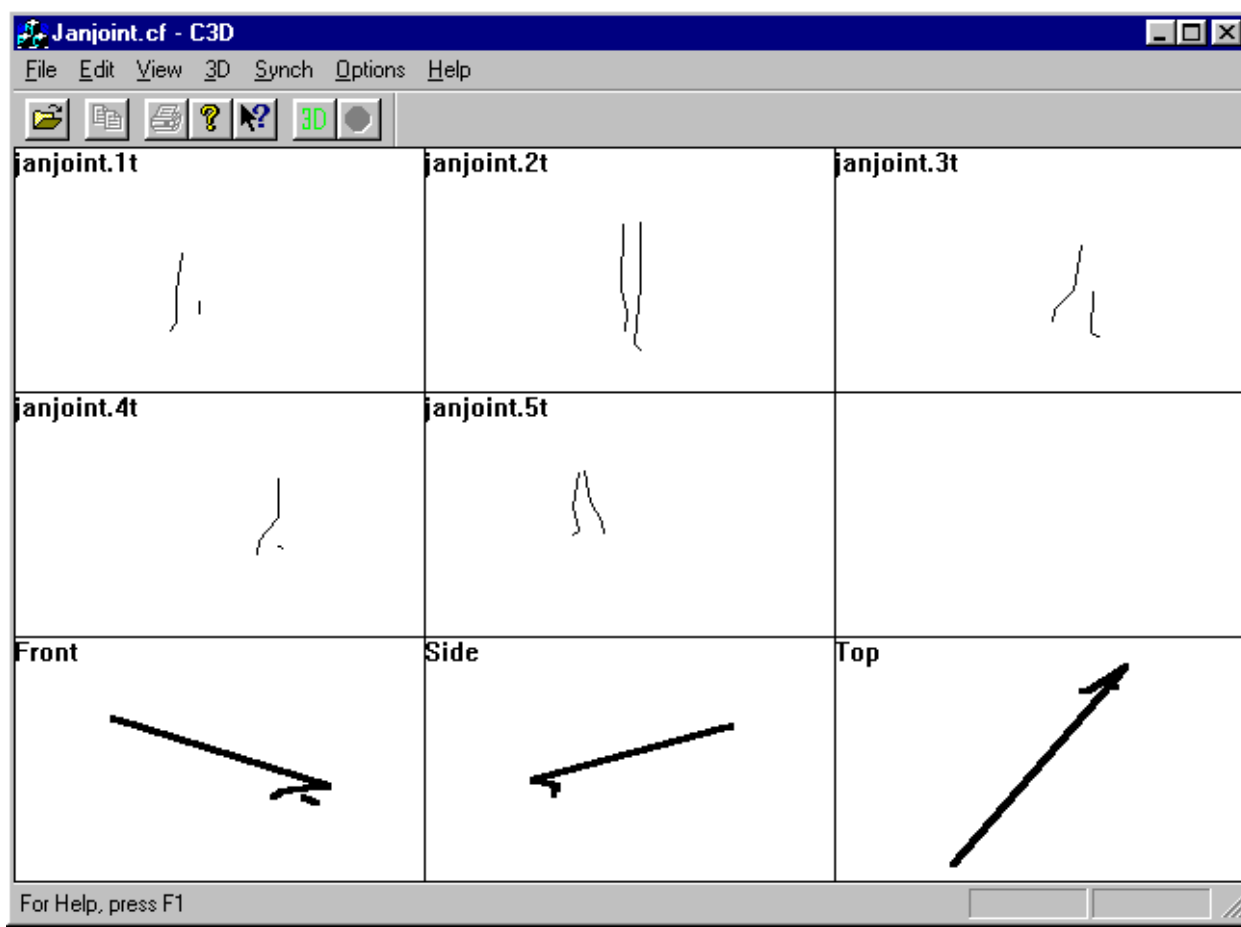
- Manually
- Automatically
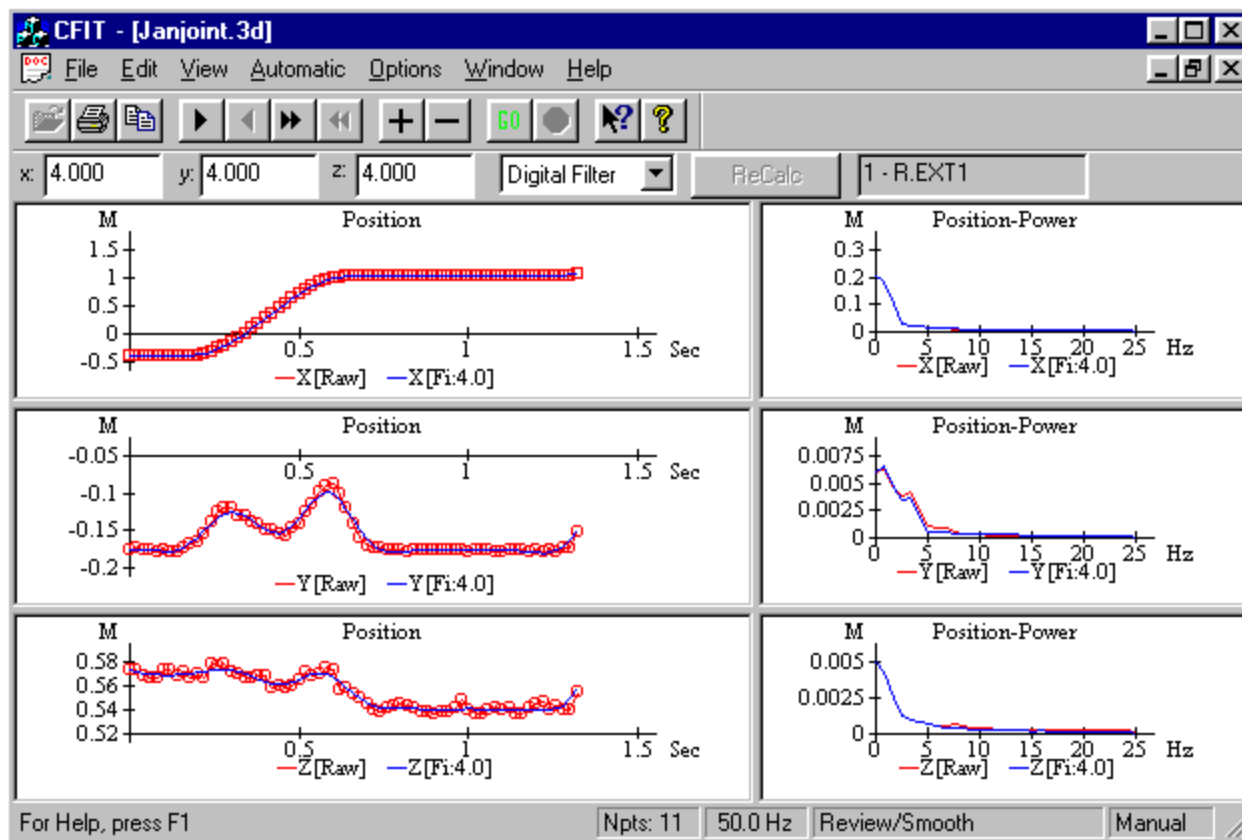
File   View   Help

For Help, press F1
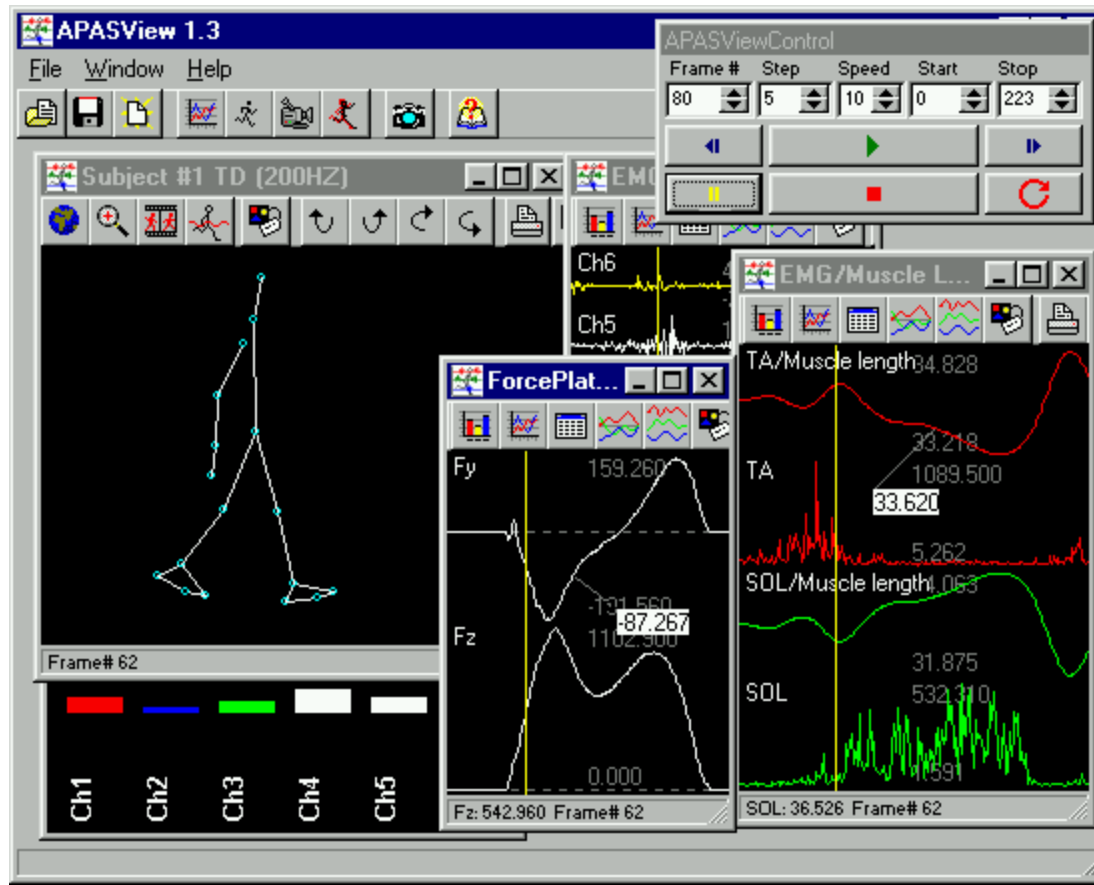
Data Pts | Locked | AutoD: Off | 0/0

Transformation

Filtering/Smoothing

Display and Analysis
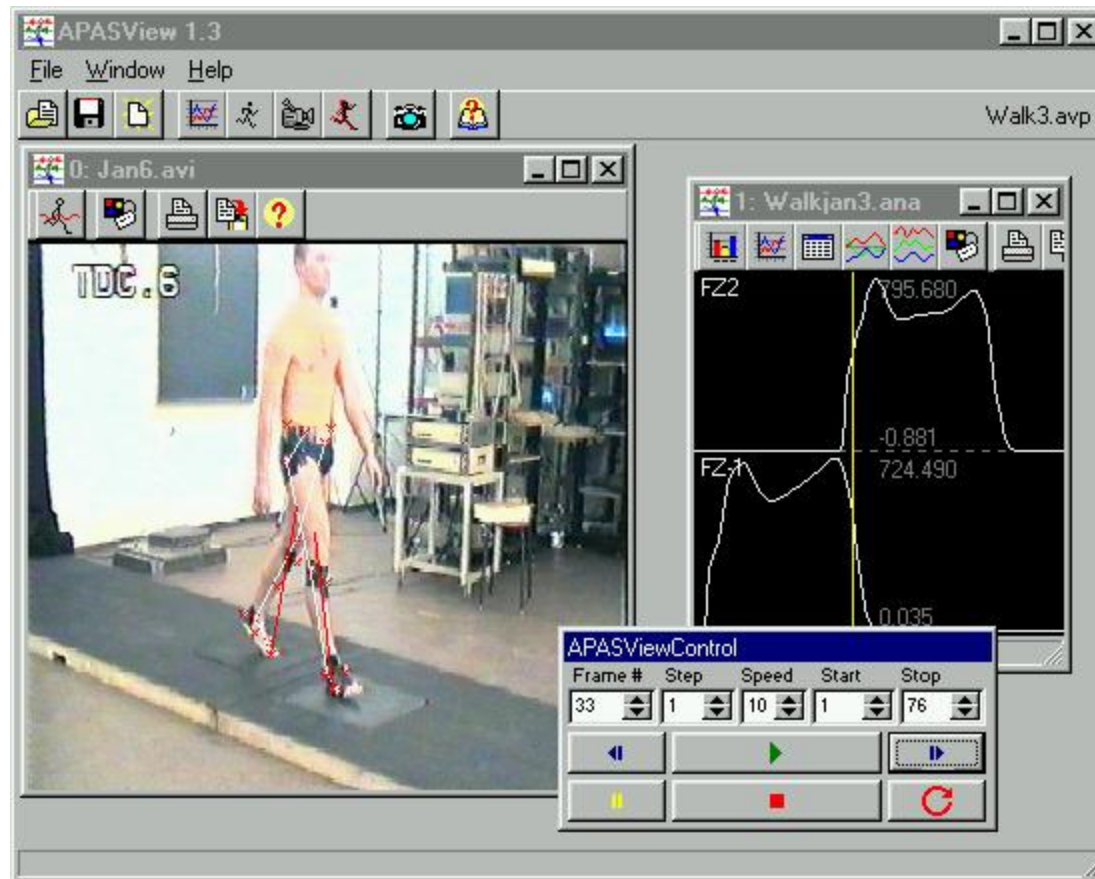
Display and Analysis

APASView 1.3

File   Window   Help

fp2.avp

APASViewControl

Frame #	Step	Speed	Start	Stop
0	1	10	0	0

Program Integration and Synchronization

Summery

Thank you