

Data Acquisition & Drive File Development



The first step is to collect actual field data (road, rail, air or ocean) in all six axis (x, y, z, pitch, roll, yaw) simultaneously. The entire trip can be recorded or portions of the trip depending on computer storage space availability.



Another container (not fixed to the floor) can be instrumented and measured along with the instrumented rack, which is fixed, to the floor. The vehicle (with desired suspension system) is then loaded with cargo to its normal shipping load and travels the required shipping route.



For information on other products CP-R provides contact our main office.

CONTROL POWER-RELIANCE, LLC

310 Executive Drive | 32399 Milton
Troy, MI 48083-4587 USA | Madison Hts., MI 48071-1418 USA
248-583-1020 | 248-588-0766

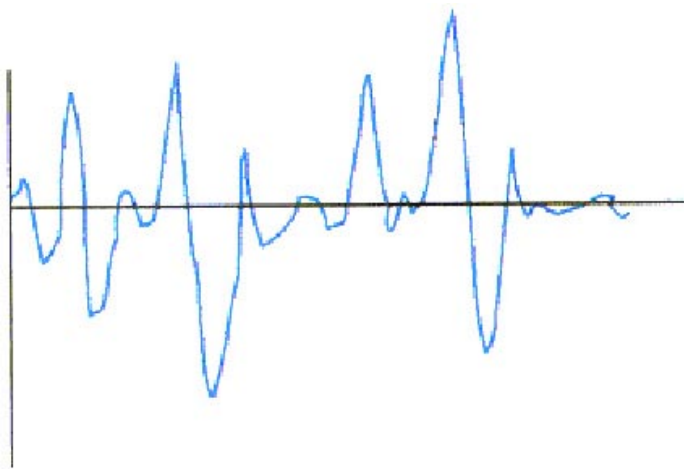
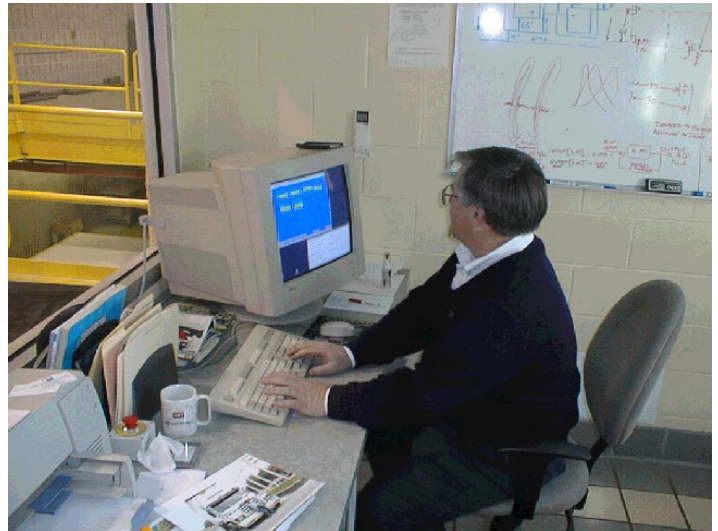
Fax: 248-583-9496
Web: www.cp-r.com
e-mail: sales@jem-cp-r.com



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Upon completion of the data acquisition, the data is processed and is readied for the laboratory. Data processing includes data filtering, removing any D.C. offset, editing out low level events, and tapering the beginning and ending of each response file.



The final step is to compare Lab Data to Road Response Data. As a check we can put a control rack on the table with instrumentation, run the new drive file, measure the responses and compare them to the original trip data (if field data is acquired for the control rack).

The next step is to get the 6-Axis Simulation Table to respond similarly to the actual road response (this process is known as iterations). The computer file generated by the iteration process is known as a drive file.

