



## November's Tip - The V5R1 Block Watch

*This month's tip was submitted by Lloyd Bryson*

With the release of V5R1, we can now monitor a block of code for errors in a manner similar to Java's try/catch blocks. If an error occurs in any section of the monitored block, you can catch and respond to that error.

A great application of this technique is to resolve the common problem that may occur when a result field is too small to hold the actual result of a calculation. (Results in a status of 00103).

```
D x          s          5p 2 inz(999.99)
D y          s          3p 0 inz(999)
D z          s          5p 2
/free
  err = *off;
  monitor;
  z = x * y;
  on-error 103;
  err = *on;
  endmon;
  *inlr = *on;
/end-free
```

The following example, obtained from [www.iSeriesNetwork.com](http://www.iSeriesNetwork.com), demonstrates that you can monitor for specific errors, and for generic file and program errors.

```
/Free
Monitor;
  Dou %EOF(TimeRecord);
  Read TimeRecord;
  If %EOF(TimeRecord);
    Leave;
  Else;
    TotalPay = (RegHours * Rate)
              + (OvtHours * Rate * 1.5)
              + (DblHours * Rate * 2);
    Update TimeRecord;
  Endif;
Enddo;
On-error 1218;          // Record locked
  Dsply 'TimeRecord record locked.';
  Leave;
On-error 1011:1211:*FILE; // File error
  Dsply 'Unexpected file error occurred.';
  Leave;
On-error *PROGRAM;    // Non-file error
  Dsply 'Unexpected program error occurred.';
  Leave;
Endmon;
*INLR = *ON;
Return;
```

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