Interface Requirements for the Rasnik Analysis

- 1. On Windows PCs the analysis module is available as .dll.
- 2. The dll has to provide 3 routines. The C++ declarations are:
 - void _init_analysis(int* version);
 - void _do_analysis(int* nin, float* fin, BYTE* image, int* error, double *dout);
 - void _exit_analysis(void);

For each analysis these 3 routines are called in sequence. However, the _init and _exit routine may be skipped. The _init could be called once, in order to get the version of the analysis and the _exit routine could be skipped always. It is kept for historical reasons.

The **_do_analysis** routine performs the actual analysis.

The necessary arguments are:

- **nin**: array of integer parameters (size = 32). Indices 0-4 are reserved/predefined:
 - o 0: # of nin parameters
 - o 1: # of fin parameters
 - o 2: input definition file (not used)
 - o 3: width of image (#pixels)
 - o 4: height of image (#pixels)
- **fin**: array of float parameters (size = 32)
- **image**: the raw image to be analyzed (BYTE = unsigned char)
- **error**: 0 = okay
- **dout**: array of results (size = 32). Indices 0-8 are predefined:
 - o 0: time of analysis
 - o 1: X
 - o 2: Y
 - o 3: Scale
 - o 4: RotZ
 - o 5: error margin X
 - o 6: error margin Y
 - o 7: error margin Scale
 - o 8: error margin RotZ

Except for the predefined indices (nin and dout), the others are free to use.