

```

/*
 * Filter Coefficients (C Source) generated by the Filter Design and Analysis Tool
 *
 * Generated by MATLAB(R) 7.9 and the Signal Processing Toolbox 6.12.
 *
 * Generated on: 09-Nov-2009 10:51:55
 *
 */

```

```

/*
 * Discrete-Time IIR Filter (real)
 * -----
 * Filter Structure : Direct-Form II, Second-Order Sections
 * Number of Sections : 2
 * Stable : Yes
 * Linear Phase : No
 */

```

```

/* General type conversion for MATLAB generated C-code */
#include "tmwtypes.h"
/*
 * Expected path to tmwtypes.h
 * /Applications/MATLAB_R2009b.app/extern/include/tmwtypes.h
 */

```

```

#define MWSPT_NSEC 5
const int NL[MWSPT_NSEC] = { 1,3,1,3,1 };
const real64_T NUM[MWSPT_NSEC][3] = {

```

```

{
input gain → 0.145109792103, 0, 0
},
{
1, 1.163154738308, 1
},

```

```

{
input gain → 0.6748846013875, 0, 0
},
{
1, -0.09600098841506, 1
},

```

```

{
output gain → 1, 0, 0
},
};

```

```

const int DL[MWSPT_NSEC] = { 1,3,1,3,1 };
const real64_T DEN[MWSPT_NSEC][3] = {

```

```

{
not used → 1, 0, 0
},
{
1, -0.8632197039509, 0.378231477657
},

```

```

{
not used → 1, 0, 0
},
{
1, -0.5690094466443, 0.8539890606199
},

```

```

{
not used → 1, 0, 0
},
};

```

Note that each SOS has an input gain and there is also an output gain.

