

# Tests for Deterministic Uncertainty Quantification with Raven

Paul Talbot  
talbotp@unm.edu

May 28, 2013

## 1 Variable Class

### 1.1 Test ZeroToOne conversions

#### 1.1.1 1D

Distribution	$U(x)$	domain $x$	$x$	$z$	$U(x) = \tilde{U}(z)$
Uniform (exact)	$2x + 1$	$x \in [3, 7]$	3	0	7
			5	0.5	9
			7	1	11
Normal (using $S_{24}$ )	$e^{-x^2}$	$x = \text{norm}(2,4)$	-1.6457044	0.05679224	0.25763168
			0.138204072952	0.175953174032	0.981080890352
			1.18858441129	0.342478660152	0.243476974193
			2.16073672736	0.532028446431	0.00938368059923
			3.14699248108	0.716896753813	4.99962939668e-05
			4.25031755787	0.870062095789	1.4268673847e-08
			5.71799002345	0.969137276001	6.31777119297e-15