



Micromega Corporation

Code Example uM-FPU64

Pseudo Random Numbers

Introduction

This code example provides an FPU functions for generating psuedo-random numbers using the example from Kernighan & Ritchie, "The C Programming Language".

FPU Functions

FPU functions: *random.fp4*

```
lval = rand()
```

Returns a psuedo-random number from 0 to 32767.

```
fval = frand() float
```

Returns a random 32-bit floating point value from 0.0 to 1.0.

```
fval = frand2(float, float) float
```

Returns a random 32-bit floating point value from arg1 to arg2.

Further Information

See the Micromega website (<http://www.micromegacorp.com>) for additional information regarding the uM-FPU64 floating point coprocessor, including:

Code Example: *Interfacing Keypad Switches*

uM-FPU64 Datasheet

uM-FPU64 Instruction Set

uM-FPU64 IDE User Manual

uM-FPU64 IDE Compiler Manual