

# FAST NORMAL RANDOM NUMBER GENERATORS FOR VECTOR PROCESSORS

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## ABSTRACT

We consider pseudo-random number generators suitable for vector processors. In particular, we describe vectorised implementations of the Box-Muller and Polar methods, and show that they give good performance on the Fujitsu VP2200. We also consider some other popular methods, e.g. the Ratio method [4, 5] and the method of Von Neumann and Forsythe [1], and show why they are unlikely to be competitive with the Polar method on vector processors.

## COMMENTS

Only the Abstract is given here. The full report appeared as [3]. For related work on uniformly distributed random numbers, see [2].

## REFERENCES

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