

TITLE

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Abstract text here.

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ACKNOWLEDGMENTS

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CHAPTER 1

INTRODUCTION

This is the introduction. Figure 1.1 shows how figures are presented. Table 1.1 does likewise for tables and Algorithm 1.1 for algorithms. This is a reference to a book [1] and this to an article [2].

1.1 SECTION

This is a new section.

1.1.1 Subsection

This is a subsection.

Table 1.1: This is an example table.

Tile size	GEMM	POTRF	SYRK	TRSM
128	8.0	1.7	2.3	1.7
1024	92.7	13.7	55.8	24.2

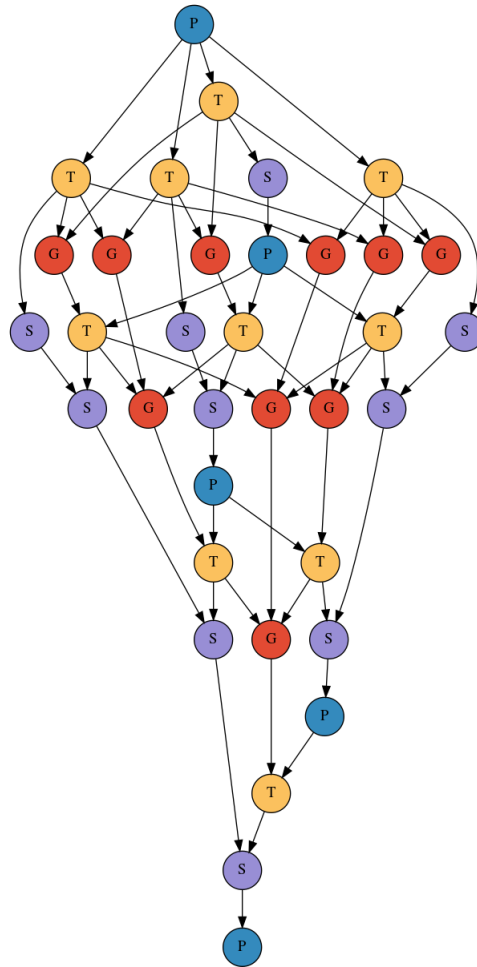


Figure 1.1: This is an example figure.

Algorithm 1.1: This is an example algorithm.

```

1 for  $i = 1, \dots, N$  do
2    $A_{ii} = \text{POTRF}(A_{ii})$ 
3   for  $j = i + 1, \dots, N - 1$  do
4      $A_{ji} = \text{TRSM}(A_{ii}, A_{ji})$ 
5   end
6   for  $k = i + 1, \dots, N - 1$  do
7      $A_{kk} = \text{SYRK}(A_{ki}, A_{kk})$ 
8     for  $j = k + 1, \dots, N - 1$  do
9        $A_{jk} = \text{GEMM}(A_{ji}, A_{ki}, A_{jk})$ 
10    end
11  end
12 end

```

BIBLIOGRAPHY

- [1] E. ANDERSON, Z. BAI, C. BISCHOF, *et al.*, [*LAPACK Users' Guide*](#), Third. Philadelphia, PA: Society for Industrial and Applied Mathematics, 1999.
- [2] J. J. DONGARRA, J. DU CROZ, S. HAMMARLING, and I. S. DUFF, [A set of Level 3 Basic Linear Algebra Subprograms](#), *ACM Trans. Math. Softw.*, vol. 16, no. 1, pp. 1–17, 1990.