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# Brodal queue

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In [computer science](#), the **Brodal queue** is a [heap/priority queue](#) structure with very low [worst case time bounds](#):  $O(1)$  for insertion, find-minimum, meld (merge two queues) and decrease-key and  $O(\log(n))$  for delete-minimum and general deletion; they are the first heap variant with these bounds. Brodal queues are named after their inventor [Gerth Stølting Brodal](#).<sup>[1]</sup>

While having better asymptotic bounds than other priority queue structures, they are, in the words of Brodal himself, "quite complicated" and "[not] applicable in practice."<sup>[1]</sup> Brodal and [Okasaki](#) describe a [persistent \(functional\)](#) version of Brodal queues.<sup>[2]</sup>

## References [\[ edit \]](#)

- <sup>^</sup> <sup>a</sup> <sup>b</sup> Gerth Stølting Brodal (1996). Worst-case efficient priority queues. Proc. 7th ACM-SIAM Symposium on Discrete Algorithms, pp. 52–58
- <sup>^</sup> Gerth Stølting Brodal and Chris Okasaki (1996). [Optimal purely functional priority queues](#) . J. Functional Programming.



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