



## Code Optimization: Effective Memory Usage

By Kris Kaspersky

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So, during optimization, our motto should be to write the code in such a way that memory and speed both will be optimized. Declaration. Actually, during my project, I have used the tips from this for optimization ARM because my project was on ARM platform, but I have also used many other articles from Internet. All tips of every article do not work well, so I collect only those tips together, which are very useful and very efficient. Also, I have modified some of them in such a way that they are almost applicable for all the environments apart from ARM. Improve memory usage and increase code speed by understanding how MATLAB stores and accesses data. The MATLAB language does not require you to declare the types and sizes of variables before you use them. As a result, you can increase the size of an array merely by indexing into it at a point larger than the current size. This approach is convenient for quick prototyping of code, but each time you use it, MATLAB must allocate memory for a new larger array and then copy the existing data into it. Code that repeats this procedure several times, as in a loop, is slow and inefficient. In one step, code segment 2 preallocates the entire array x to the largest size that it needs to be. No more me... A guide to optimizing programs on the PC and Unix platforms, this book covers the expediency of optimization and the methods to increase the speed of programs via optimization. Discussed are typical mistakes made by programmers that lessen the performance of the system along with easily implemented solutions. Detailed descriptions of the devices and mechanism of interaction of the computer components, effective ways of programming, and a technique for optimizing programs, are provided. Programmers will also learn how to effectively implement programming methods in a high-level language that is Since the memory used by newWin itself (that is, the reference on the stack, not the object) is no longer used the compiler could use that memory for irrelevant or something else. There being no live reference any more, the object is eligible for collection. Indeed, if the last few methods called on an object don't actually use the this pointer (whether directly or by using member fields) then the object can even be collected before those methods are called, because they don't actually make use of the object.