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Opportunity and Significance

We developed a MATLAB program to help sort MIL_SERVICE, CASUALTY_COUNTRY, CASUALTY_TYPE, REF_NO, NAME, PROCESSED, MIL_GRADE, PAY_GRADE, DIED, HOR_CITY, HOR_STATE, OCCUPATION, BORN. Our code looks at demographics of the data. The knowledge can be used to look at trends in the military of that time, which then can be used to focus on issues that take the most life. For example, if we know that it’s the small arms fire that takes most life in partisan warfare, maybe additional investment in body armor may prevent this in future, as well as selecting tactics that minimize physical confrontation (bomb them before they get to you), if cases of friendly fire are relatively insignificant.

Technical Approach & Accomplishments

Basic outline of the process we used to write the code:
1. Isolate columns of interest and receive them as arrays. (A, B, N, G, R, Z) In other words, create 6 arrays and save each variable in them (int as int, float as float, array of chars as array of chars).
2. Give counts of each type of variable casualty (how many privates died, how many of people of each age died) - sort the data.
3. Graph the sorted data.
4. Examine the correlation, if any exist, and give multiple plausible explanation why they exist or why they didn’t.
5. Pack everything into one .exe and make a video.

Next Steps for Development and Test

Our next steps would be to:
1. Find more data to code
2. Use the code to find ways to prevent further casualties in upcoming wars

Commercialization Plan & Partners

There are currently no plans for commercialization or partnership.

Technical Objectives

Our objective was to sort a large set of data from an excel sheet into a MATLAB code. This makes it much easier to find and compare data. This also gives the option to see several types of graphs.

Results

The final results show relevant demographic data and causes of death (the latter can be used to determine areas of focus and possible strategies for minimizing casualties) when improving future effectiveness of US military.