

Title: Fixing a computershared.net bug... Major history rewrite incoming

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Before I begin, just a reminder that [computershared.net](https://computershared.net) is not DRSBot... there's always a lot of confusion about that. I do not have access to DRSBot's data, only text from the images I scrape from Reddit. Learn more --> [https://www.reddit.com/user/jonpro03/comments/v3iyt4/how\_does\_computersharednet\_work/](https://www.reddit.com/user/jonpro03/comments/v3iyt4/how\_does\_computersharednet\_work/)

There's a bug in [computershared.net](https://computershared.net) in the way that it handles calculating share delta (change in account value over time) and account consolidations.

From the images I gather, I need to ascertain a few pieces of information:

- \* How many computershare accounts
- \* How many shares across all accounts
- \* Delta shares with each update
- \* When are accounts consolidated

I found a bug which results in some posts having in a negative delta value. Here is an example of what the code is currently doing:

DATE	DISPLAYED VALUE	DELTA VALUE	TOTAL BALANCE	# OF ACCOUNTS
Jan 2020	100	100	100	1
Feb 2020	30	30	130	2
Mar 2020	40	40	170	3
Apr 2020	110	-60	110	3
May 2020	150	40	150	3

There's a lot to unpack here... First, in Feb, the code guesses correctly that the shareholder has a second computershare account.

It incorrectly guesses (probably) that in March, they have a 3rd computershare account.

Then in April, all hell breaks loose. The code sees that this is the largest portfolio balance to date, and assumes the shareholder consolidated their accounts. Here's the bug... I don't actually check if it results in a negative delta... just that it's the largest portfolio balance to date.

This negative delta reeks all sorts of havoc on later statistics.

Besides the consolidation snafu, I also want to make it better at guessing when an ape has increased a position in a second account as well. As a human looking at the shareholder's portfolio images over time, it looks like 2 accounts to me, but the code is guessing 3.

I want to rewrite it so that it makes these assumptions instead

DATE	DISPLAYED VALUE	DELTA VALUE	TOTAL BALANCE	# OF ACCOUNTS
Jan 2020	100	100	100	1

```
|Jan 2020|100|100|100|1|  
|Feb 2020|30|30|130|2|  
|Mar 2020|40|10|140|2|  
|Apr 2020|110|10|150|2|  
|May 2020|150|0|150|2|
```

You can see that the code will now guess that there was a consolidation in May, not April. Is it right? Maybe... it's still just a guess. It could be that the shareholder added 40 shares to their Jan account.

The code will also now guess that March was an increment to the account from Feb, and that April was an increment to the account from Jan.

The code for this change is actually quite simple. I just look at previous displayed values and subtract the one that results in the lowest delta (without going negative).

Is this going to be right all of the time, no... but I think it'll right more often than not.

It's going to take 10s of hours to reprocess everyone (33k posts for 20k accounts) and rewrite history (300+ days)... but I've made backups in case I screw up :D

Nonetheless, results on the site will bounce around a bit while I work though it. Fasten your safety belts.