

Code consolidation

Source: http://coding.derkeiler.com/Archive/C_CPP/comp.lang.c/2005-08/msg03109.html

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 - *Date:* Tue, 30 Aug 2005 22:59:31 -0400
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I am in the process of writing my first large scale program and I find myself in the position of writing several copies of functions that do the same thing, with mostly the same code, but only slightly different. For example:

```
double
Chisqrd1(double *params, double *weight) { // CHANGE
int i;
double deltay, chiSqrd;
xy_t *data;

chiSqrd = 0.0;
data = dataList;
for (i = 0; data != NULL; i++) {
deltay = data->y - netCarriers(params, data->x); // CHANGE
chiSqrd += weight[i] * deltay * deltay;
data = data->next;
}
return(chiSqrd);
}

double
Chisqrd2(dopant_t *dopants, double *weight, double *Ef, double Eg) { //
CHANGE
int i;
double deltay, chiSqrd;
xy_t *data;

chiSqrd = 0.0;
data = dataList;
for (i = 0; data != NULL; i++) {
deltay = data->y - netIonized(dopants, data->x, Ef[i]); // CHANGE
chiSqrd += weight[i] * deltay * deltay;
data = data->next;
}
return(chiSqrd);
}
```

I was wondering if there are common ways to cut down on this type of

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duplication without adding too much to the overall complexity. Does anybody have any suggestions? Thanks.

Aaron

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