

# Bush 2008 Stimulus as a Function of Income and Family Status

Taking advantage of [snw\\_stimulus\\_checks\\_bush](#) from the [PrjOptiSNW Package](#), this function presents stimulus checks at different income levels for households with different children count and marital status. The function considers the bush stimulus checks from the [Economic Stimulus Act of 2008](#). IRS information provides information at the [Economic Stimulus Payment Information Center](#).

Note that the Bush stimulus is a tax rebate, so we compute tax liability based on [snw\\_tax\\_liability](#).

The Stimulus policy is expressed in the following formula, first four components ( $M$  is marital status, equals to 1 for married, 0 for unmarried,  $K$  is the number of kids,  $Y$  is pre-tax income) :

- $\text{MinChk}(M) = 300 \cdot (1 + M)$
- $\text{CappedRebate}(Y, K, M) = \min\left(\text{TaxLiability}(Y, K, M), 600 \cdot (1 + M)\right)$
- $\text{PhaseOut}(Y, M) = \max\left(0, Y - 75000 \cdot (1 + M)\right) \cdot 0.05$
- $\text{KidsChk}(K) = 300 \cdot K$

Overall Tax-rebate Stimulus is:

$$\text{Bush08StimulusTaxRebate} = \max\left(\max\left(\text{MinChk}(M), \text{CappedRebate}(Y, K, M)\right) + \text{KidsChk}(K) - \text{PhaseOut}(Y, M), 0\right)$$

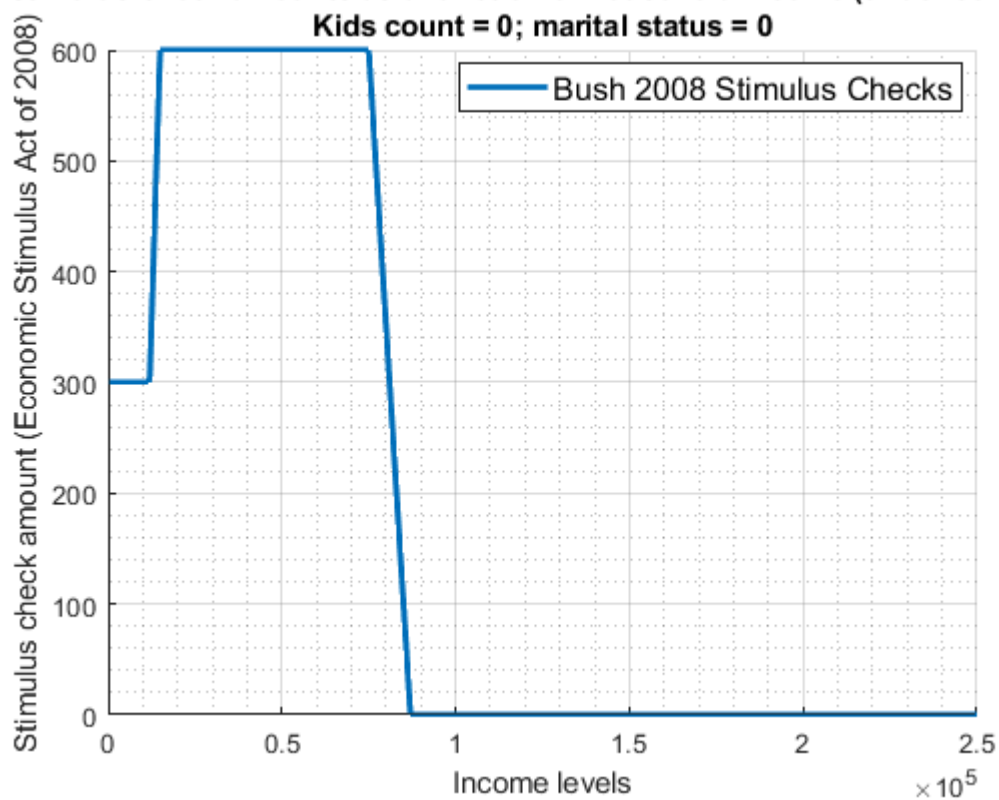
## Bush Stimulus Checks for Unmarried Households

Check base amount per adult and per child for the first and second rounds.

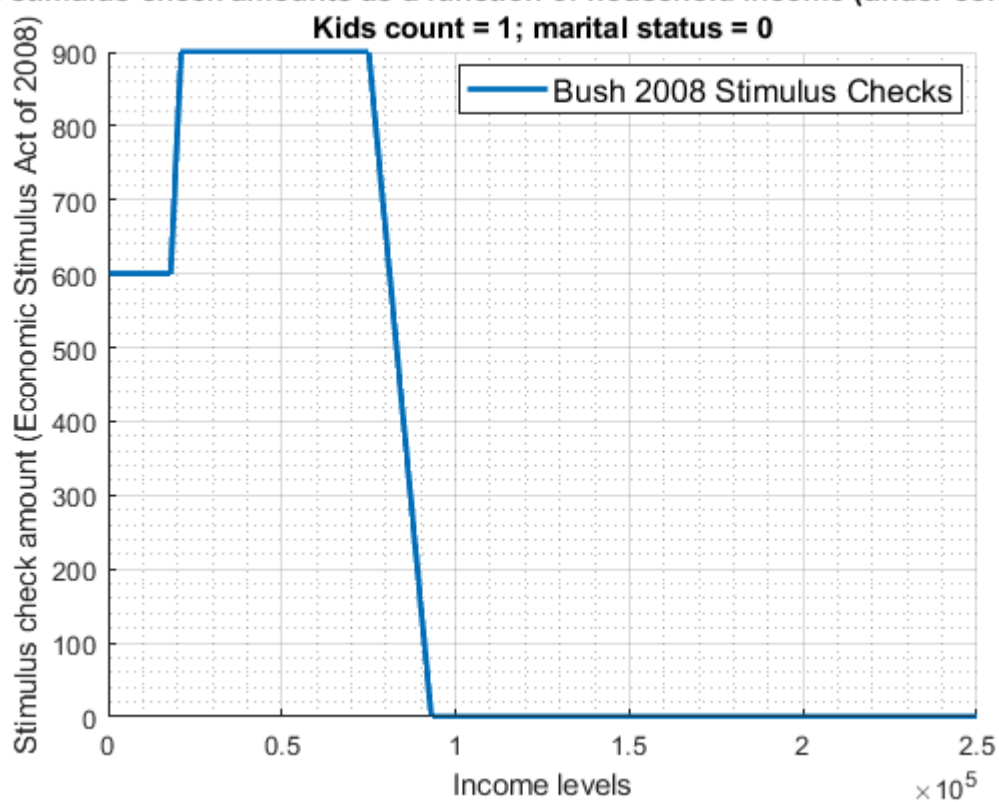
Visualize stimulus check amounts.

```
bl_visualize = true;
[fl_stimulus_adult, fl_stimulus_child] = deal(600, 300);
bl_marital = 0;
for it_kids=0:1:4
    snw_stimulus_checks_bush(it_kids, bl_marital, fl_stimulus_adult, fl_stimulus_child, bl_visu
end
```

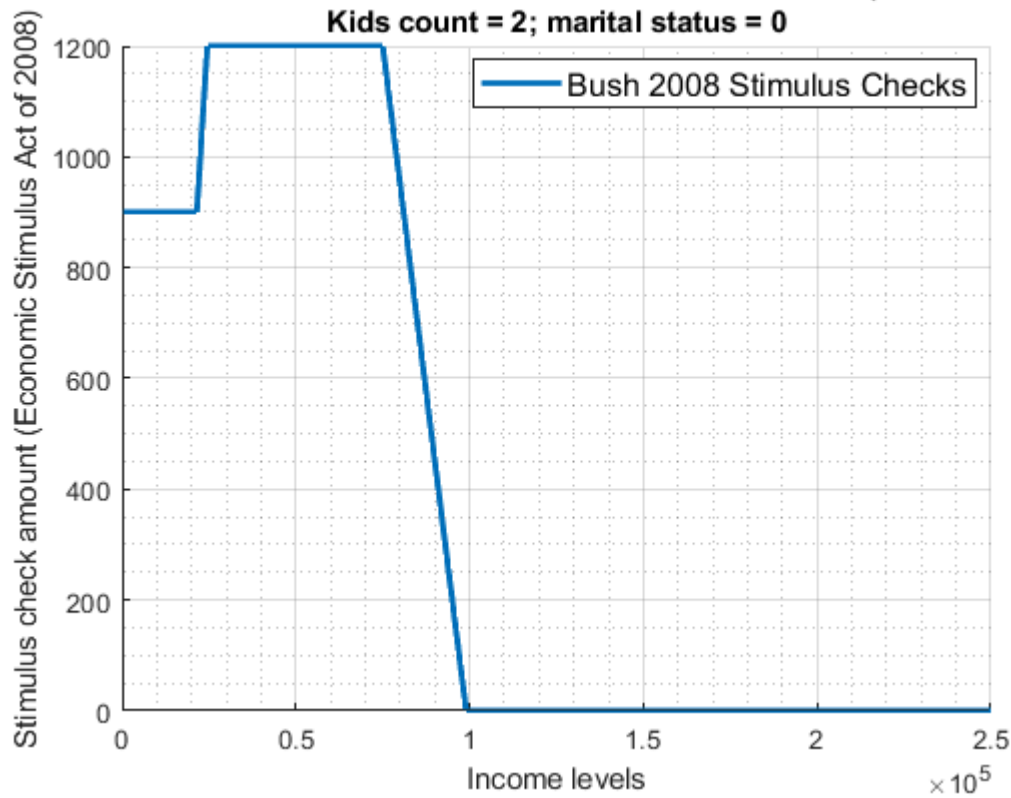
ish stimulus check amounts as a function of household income (under considera



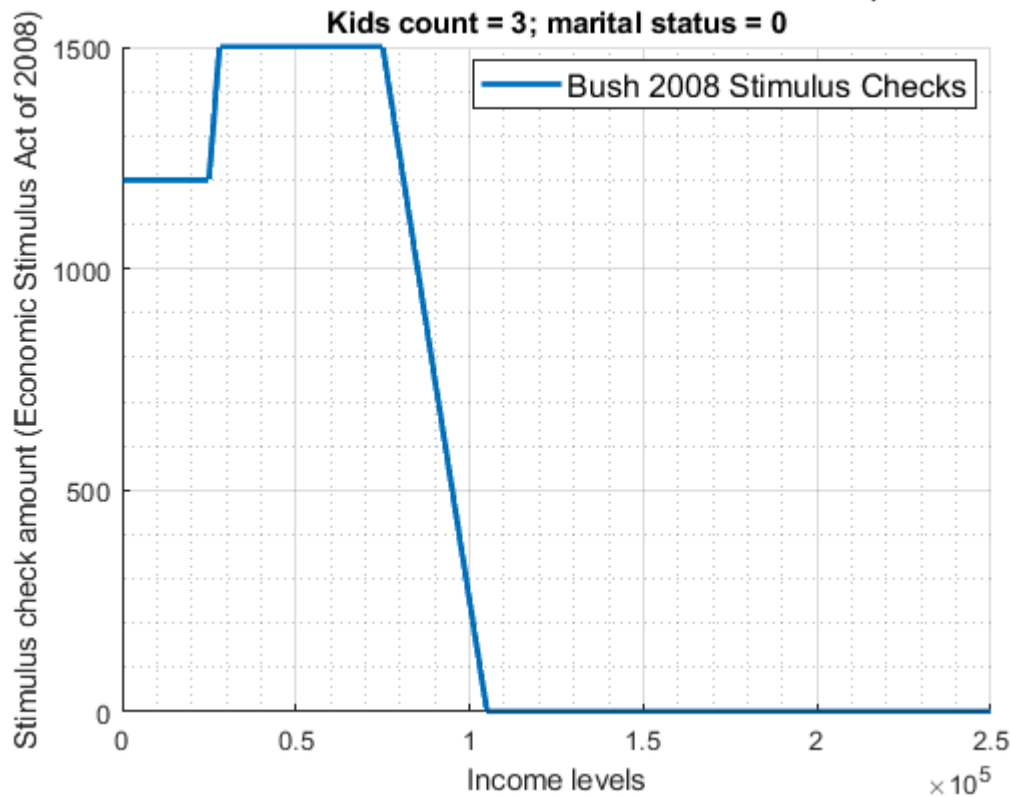
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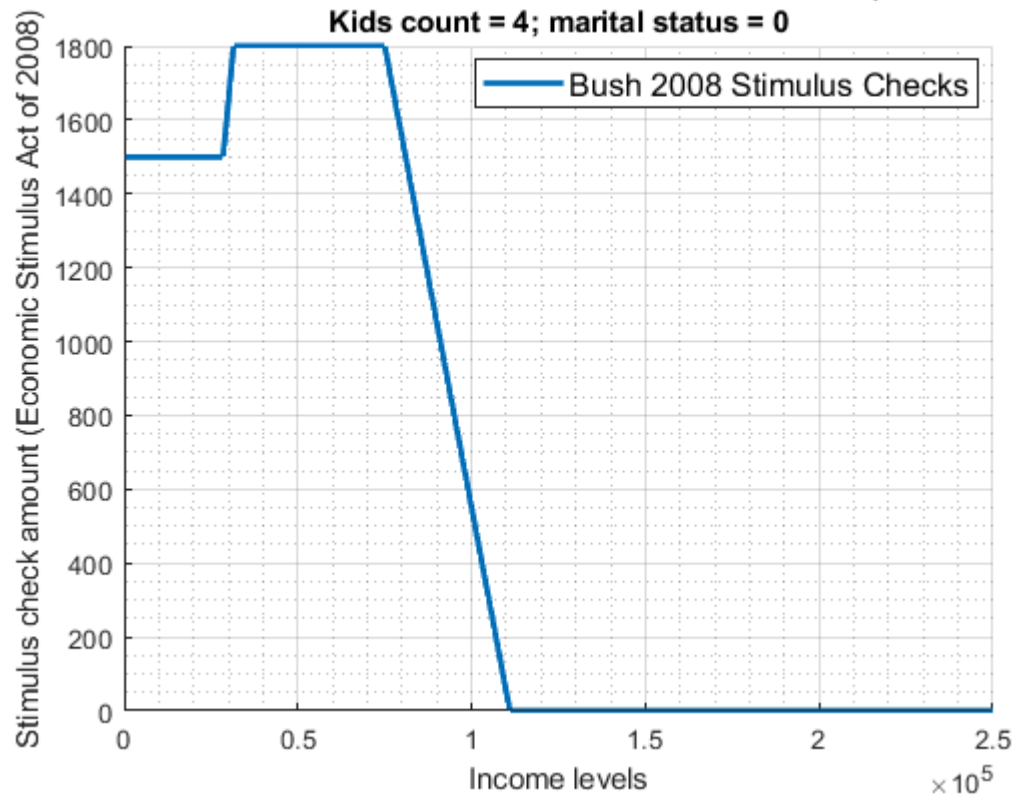
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ish stimulus check amounts as a function of household income (under considera



ish stimulus check amounts as a function of household income (under consideration)

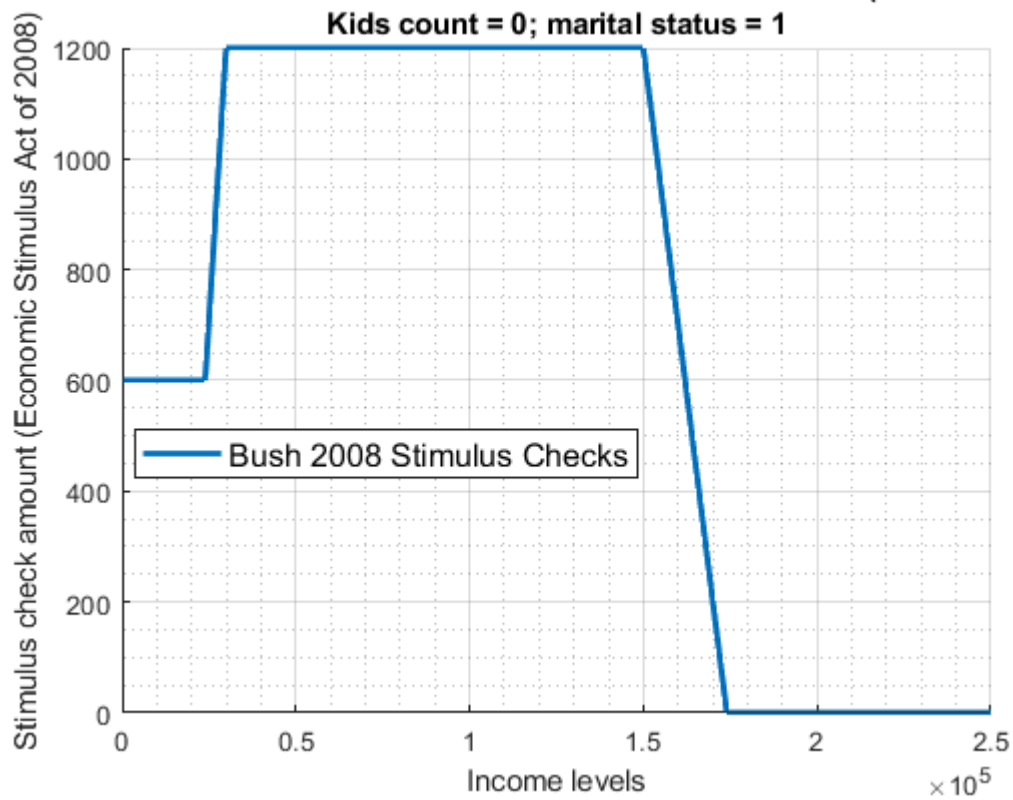


## Bush Stimulus Checks for Married Households

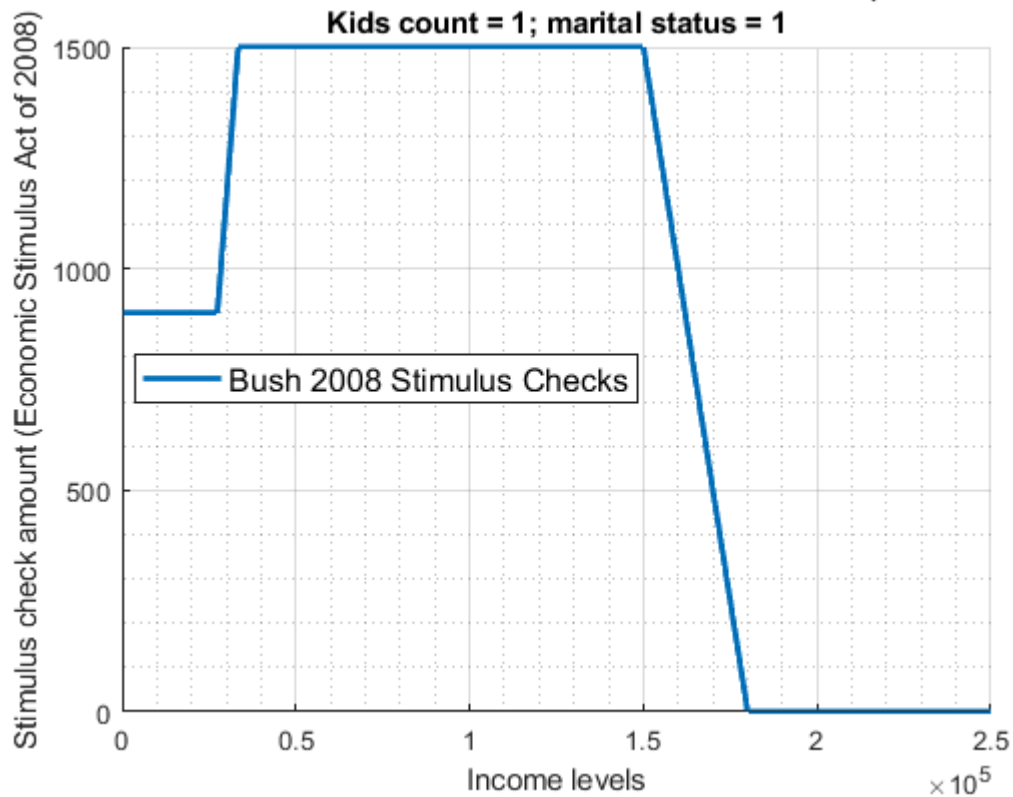
Visualize stimulus check amounts.

```
[fl_stimulus_adult, fl_stimulus_child] = deal(600, 300);
bl_marital = 1;
for it_kids=0:1:4
    snw_stimulus_checks_bush(it_kids, bl_marital, fl_stimulus_adult, fl_stimulus_child, bl_visu
end
```

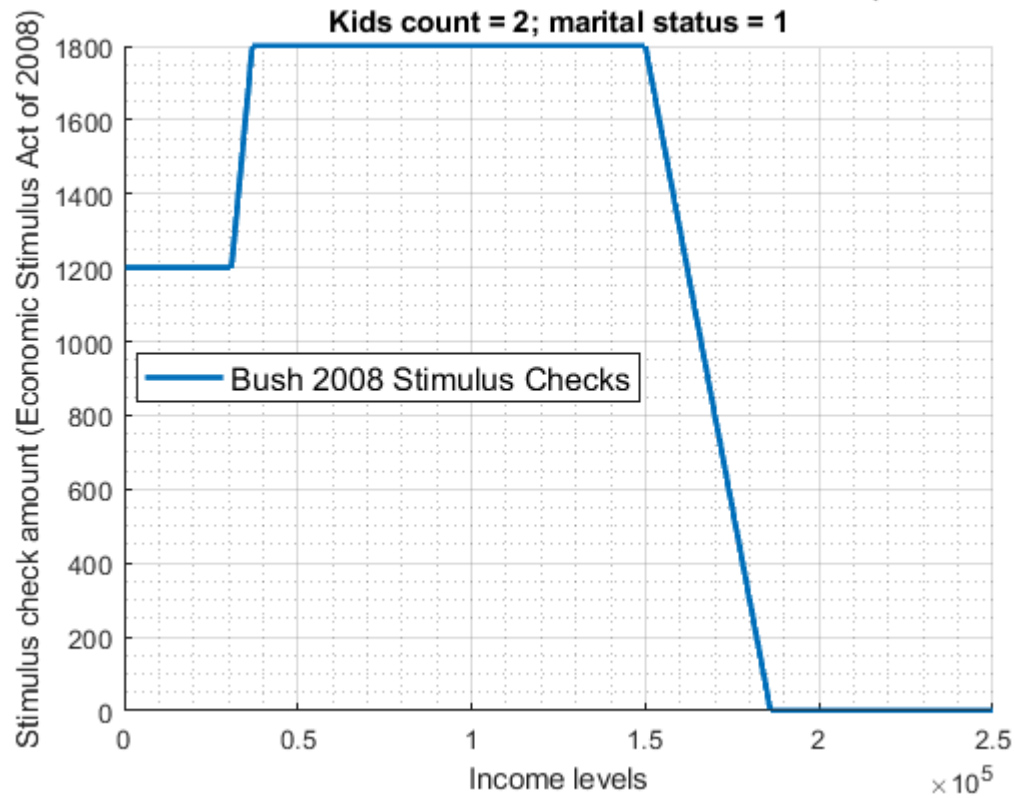
ish stimulus check amounts as a function of household income (under considera



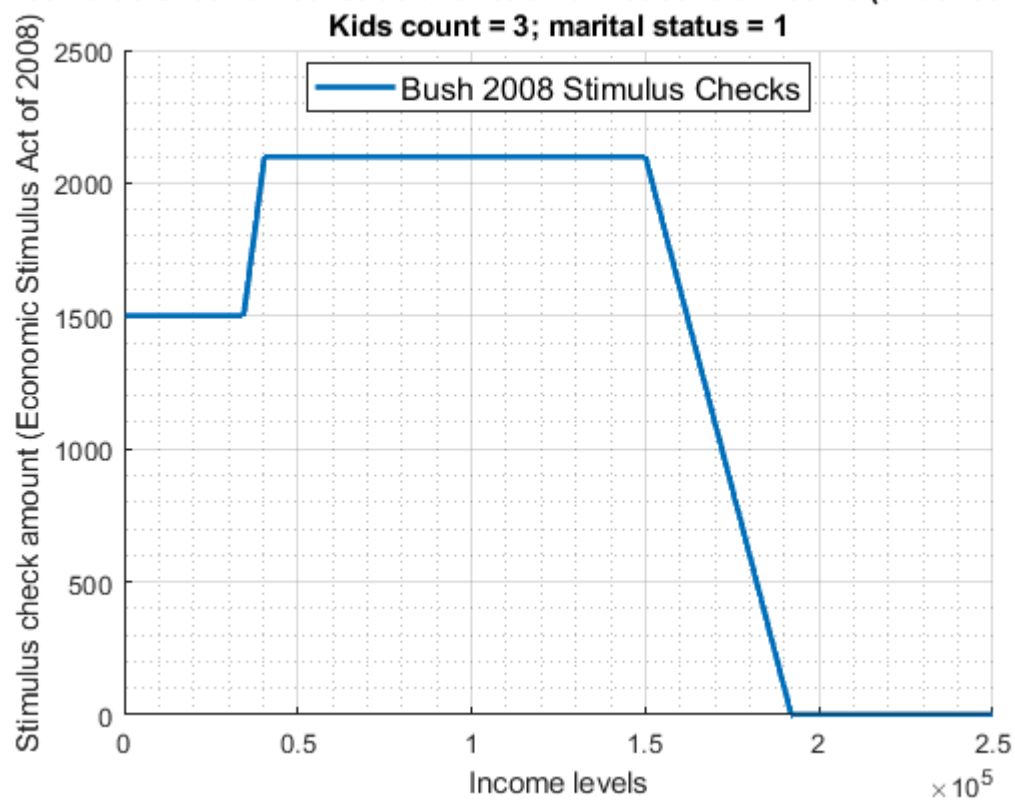
ish stimulus check amounts as a function of household income (under considera



ish stimulus check amounts as a function of household income (under considera



ish stimulus check amounts as a function of household income (under considera



ish stimulus check amounts as a function of household income (under consideration)

Kids count = 4; marital status = 1

