# Report on the python hashing implementation.

## General Overview:

## Usage instructions:

## Assumptions:

### Differences between ASTs:

|  |  |  |  |
| --- | --- | --- | --- |
| Python 2.4 | Python 2.5 | Python 2.6 | Python 3.3 |

### Changes Made and Status:

|  |  |  |  |
| --- | --- | --- | --- |
| Change | Developed | Tested | Notes |
|  |  |  |  |

## Known Issues:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Issue | Location | Impact | Severity | Action |
| Slicing error-  P=(p+[1,2,3])[:1]  Gets minified to  P=p+[1,2,3][:1]  Which has different meaning. | Mnfy27, Mnfy33 | No impact on hashing because its consistant. Is an issue for mnfy’s standalone goals of portable code. | Low | No action required for hashing /RedHat purposes. |
| Some docstrings are referenced by \_\_doc\_\_ call in python. Docstrings are removed by mnfy, causing compile/run problems. | Mnfy27,Mnfy33 | No impact on hashing because code does not need to compile and removal of docstrings is consistent. | Low | No action required for hashing/RedHat purposes. |
| Big Numbers:  For some reason, reading and printing very large numbers (in the order of \_) causes digits to be lost. | Mnfy27, but I think it is in all of Python. | Potential hashing risk, because large numbers could change code execution, though both hashes would be the same. | Medium | Not really sure if there is a fix for this one. |
|  |  |  |  |  |

## Testing Report:

Unit Testing of Mnfy33

Unit Testing of Mnfy27

Unit Testing of MnfyFailSafe

Blackbox testing of Hashing

* Mnfy33
* Mnfy27
* MnfyFailSafe

Blackbox testing of layered failiures: