Environment: Ubuntu 18.04 X86\_64 WITH 16 GB MEMORY

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| **Subject[1]** | Python3.7.15, calendar.TextCalendar.formatweekday |
| **Vulnerability Type** | OOM & MemoryError (Unhandled exception) |
| **Input** | mutated seed by PyRtFuzz |
| **Description** | 1. With specific input, the APP can get hard crash with OOM  2. With specific input, the APP can exit with unhandled exception of MemoryError |
| **PoC** | PoC\_python3.7\_Vul/MemoryError-calendar.TextCalendar.formatweekday.py  PoC\_python3.7\_Vul/OOM-calendar.TextCalendar.formatweekday.py |
| **Status** | **PoC Done** |

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| **Subject[2]** | Python3.7.15, ssl.SSLContext.set\_alpn\_protocols |
| **Vulnerability Type** | MemoryError (Unhandled exception) |
| **Input** | mutated seed by PyRtFuzz |
| **Description** | With specific input, the APP can exit with unhandled exception of MemoryError |
| **PoC** | PoC\_python3.7\_Vul/MemoryError-ssl.SSLContext.set\_alpn\_protocols.py |
| **Status** | **PoC Done** |

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| **Subject[3]** | Python3.7.15, timeit.reindent |
| **Vulnerability Type** | OOM & MemoryError (Unhandled exception) |
| **Input** | mutated seed by PyRtFuzz |
| **Description** | 1. With specific input, the APP can get hard crash with OOM  2. With specific input, the APP can exit with unhandled exception of MemoryError |
| **PoC** | PoC\_python3.7\_Vul/MemoryError-timeit.reindent.py  PoC\_python3.7\_Vul/OOM-timeit.reindent.py |
| **Status** | **PoC Done** |

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| **Subject[4]** | Python3.7.15, codeop.compile\_command |
| **Vulnerability Type** | StackOverflow |
| **Input** | mutated seed by PyRtFuzz |
| **Description** | With specific input, the APP can exit with unhandled exception of MemoryError: s\_push: parser stack overflow |
| **PoC** | PoC\_python3.7\_Vul/StackOverflow-codeop.compile\_command.py |
| **Status** | **PoC Done** |

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| **Subject[5]** | Python3.7.15, email.policy.EmailPolicy.header\_fetch\_parse |
| **Vulnerability Type** | RecursionError (Unhandled exception) |
| **Input** | mutated seed by PyRtFuzz |
| **Description** | With specific input, the APP can exit with unhandled exception of RecursionError |
| **PoC** | PoC\_python3.7\_Vul/RecursionError-email.policy.EmailPolicy.header\_fetch\_parse.py |
| **Status** | **PoC Done** |

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| **Subject[6]** | Python3.7.15, dis.show\_code |
| **Vulnerability Type** | StackOverflow |
| **Input** | mutated seed by PyRtFuzz |
| **Description** | With specific input, the APP can exit with unhandled exception of MemoryError: s\_push: parser stack overflow |
| **PoC** | PoC\_python3.7\_Vul/StackOverflow-dis.show\_code.py |
| **Status** | **PoC Done** |

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| **Subject[7]** | Python3.7.15, operator.imod |
| **Vulnerability Type** | MemoryError (Unhandled exception) |
| **Input** | mutated seed by PyRtFuzz |
| **Description** | With specific input, the APP can exit with unhandled exception of MemoryError |
| **PoC** | PoC\_python3.7\_Vul/MemoryError-operator.imod.py |
| **Status** | **PoC Done** |

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| **Subject[8]** | Python3.7.15, xml.etree.ElementPath.find |
| **Vulnerability Type** | RecursionError (Unhandled exception) |
| **Input** | mutated seed by PyRtFuzz |
| **Description** | With specific input, the APP can exit with unhandled exception of RecursionError |
| **PoC** | PoC\_python3.7\_Vul/RecursionError-xml.etree.ElementPath.find.py |
| **Status** | **PoC Done** |

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| **Subject[9]** | Python3.7.15, configparser.LegacyInterpolation.before\_get |
| **Vulnerability Type** | MemoryError (Unhandled exception) |
| **Input** | mutated seed by PyRtFuzz |
| **Description** | With specific input, the APP can exit with unhandled exception of MemoryError |
| **PoC** | PoC\_python3.7\_Vul/MemoryError-configparser.LegacyInterpolation.before\_get.py |
| **Status** | **PoC Done** |

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| **Subject[10]** | Python3.7.15, email.utils.parseaddr |
| **Vulnerability Type** | RecursionError (Unhandled exception) |
| **Input** | mutated seed by PyRtFuzz |
| **Description** | With specific input, the APP can exit with unhandled exception of RecursionError |
| **PoC** | PoC\_python3.7\_Vul/RecursionError-email.utils.parseaddr.py |
| **Status** | **PoC Done** |

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| **Subject[11]** | Python3.7.15, xml.etree.ElementPath.findtext |
| **Vulnerability Type** | RecursionError (Unhandled exception) |
| **Input** | mutated seed by PyRtFuzz |
| **Description** | With specific input, the APP can exit with unhandled exception of RecursionError |
| **PoC** | PoC\_python3.7\_Vul/RecursionError-xml.etree.ElementPath.findtext.py |
| **Status** | **PoC Done** |

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| **Subject[12]** | Python3.7.15, fnmatch.fnmatchcase |
| **Vulnerability Type** | Hang Up |
| **Input** | mutated seed by PyRtFuzz |
| **Description** | With specific input, the APP Hang Up |
| **PoC** | PoC\_python3.7\_Vul/HangUp-fnmatch.fnmatchcase.py |
| **Status** | **PoC Done** |

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| **Subject[13]** | Python3.7.15, operator.mod |
| **Vulnerability Type** | MemoryError (Unhandled exception) |
| **Input** | mutated seed by PyRtFuzz |
| **Description** | With specific input, the APP exit with MemoryError |
| **PoC** | PoC\_python3.7\_Vul/MemoryError-operator.mod.py |
| **Status** | **PoC Done** |

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| **Subject[14]** | Python3.7.15, email.utils.getaddresses |
| **Vulnerability Type** | RecursionError (Unhandled exception) |
| **Input** | mutated seed by PyRtFuzz |
| **Description** | With specific input, the APP exit with RecursionError |
| **PoC** | PoC\_python3.7\_Vul/RecursionError-email.utils.getaddresses.py |
| **Status** | **PoC Done** |

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| **Subject[15]** | Python3.7.15, locale.format |
| **Vulnerability Type** | OOM & MemoryError (Unhandled exception) |
| **Input** | mutated seed by PyRtFuzz |
| **Description** | With specific input, the APP crash with OOM or exit with MemoryError |
| **PoC** | PoC\_python3.7\_Vul/ MemoryError-locale.format.py  PoC\_python3.7\_Vul/ OOM-locale.format.py |
| **Status** | **PoC Done** |

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| **Subject[16]** | Python3.7.15, locale.format\_string |
| **Vulnerability Type** | OOM & MemoryError (Unhandled exception) |
| **Input** | mutated seed by PyRtFuzz |
| **Description** | With specific input, the APP crash with OOM or exit with MemoryError |
| **PoC** | PoC\_python3.7\_Vul/ MemoryError-locale. format\_string.py  PoC\_python3.7\_Vul/ OOM-locale. format\_string.py |
| **Status** | **PoC Done** |

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| **Subject[17]** | Python3.7.15, dis.code\_info |
| **Vulnerability Type** | MemoryError (Unhandled exception) |
| **Input** | mutated seed by PyRtFuzz |
| **Description** | With specific input, the APP crash with MemoryError |
| **PoC** | PoC\_python3.7\_Vul/ MemoryError-dis.code\_info.py |
| **Status** | **PoC Done** |

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| **Subject[18]** | Python3.7.15, dis.dis |
| **Vulnerability Type** | MemoryError (Unhandled exception) |
| **Input** | mutated seed by PyRtFuzz |
| **Description** | With specific input, the APP crash with MemoryError |
| **PoC** | PoC\_python3.7\_Vul/ MemoryError-dis.dis.py |
| **Status** | **PoC Done** |

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| **Subject[19]** | Python3.7.15, codeop.compile\_command |
| **Vulnerability Type** | MemoryError (Unhandled exception) |
| **Input** | mutated seed by PyRtFuzz |
| **Description** | With specific input, the APP crash with MemoryError |
| **PoC** | PoC\_python3.7\_Vul/ MemoryError-codeop.compile\_command.py |
| **Status** | **PoC Done** |

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| **Subject[20]** | Python3.7.15, calendar.monthlen |
| **Vulnerability Type** | OOM & MemoryError (Unhandled exception) |
| **Input** | mutated seed by PyRtFuzz |
| **Description** | 1. With specific input, the APP can get hard crash with OOM  2. With specific input, the APP can exit with unhandled exception of MemoryError |
| **PoC** | PoC\_python3.7\_Vul/OOM-calendar.monthlen.py  PoC\_python3.7\_Vul/MemoryError-calendar.monthlen.py |
| **Status** | **PoC Done** |

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| **Subject[21]** | Python3.7.15, calendar.isleap |
| **Vulnerability Type** | OOM & MemoryError (Unhandled exception) |
| **Input** | mutated seed by PyRtFuzz |
| **Description** | 1. With specific input, the APP can get hard crash with OOM  2. With specific input, the APP can exit with unhandled exception of MemoryError |
| **PoC** | PoC\_python3.7\_Vul/OOM-calendar.isleap.py  PoC\_python3.7\_Vul/MemoryError-calendar.isleap.py |
| **Status** | **PoC Done** |

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| **Subject[22]** | Python3.7.15, pyclbr.readmodule\_ex |
| **Vulnerability Type** | RecursionError (Unhandled exception) |
| **Input** | mutated seed by PyRtFuzz |
| **Description** | 1. With specific input, the APP can exit with unhandled exception of RecursionError |
| **PoC** | PoC\_python3.7\_Vul/RecursionError-pyclbr.readmodule\_ex.py |
| **Status** | **PoC Done** |