Environment: Ubuntu 18.04 X86\_64 WITH 16 GB MEMORY

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| **Subject[1]** | Python3.9.15, 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\_python3.9\_Vul/MemoryError-calendar.isleap.py  PoC\_python3.9\_Vul/OOM-calendar.isleap.py |
| **Status** | **PoC Done** |

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| **Subject[2]** | Python3.9.15, calendar.TextCalendar.formatmonth |
| **Vulnerability Type** | OOM & MemoryError (Unhandled exception) |
| **Input** | mutated seed by PyRtFuzz |
| **Description** | With specific input, the APP can exit with unhandled exception of MemoryError |
| **PoC** | PoC\_python3.9\_Vul/MemoryError-calendar.TextCalendar.formatmonth.py  PoC\_python3.9\_Vul/ OOM-calendar.TextCalendar.formatmonth.py |
| **Status** | **PoC Done** |

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| **Subject[3]** | Python3.9.15, 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\_python3.9\_Vul/MemoryError- calendar.TextCalendar.formatweekday.py  PoC\_python3.9\_Vul/OOM-calendar.TextCalendar.formatweekday.py |
| **Status** | **PoC Done** |

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| **Subject[4]** | Python3.9.15, dis.get\_instructions |
| **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\_python3.9\_Vul/MemoryError-dis.get\_instructions.py |
| **Status** | **PoC Done** |

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| **Subject[5]** | Python3.9.15, distutils.fancy\_getopt.wrap\_text |
| **Vulnerability Type** | HangUp |
| **Input** | mutated seed by PyRtFuzz |
| **Description** | With specific input, the APP HangUp |
| **PoC** | PoC\_python3.9\_Vul/HungUp-distutils.fancy\_getopt.wrap\_text.py |
| **Status** | **PoC Done** |

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| **Subject[6]** | Python3.9.15, email.policy.EmailPolicy.header\_store\_parse |
| **Vulnerability Type** | RecursionError (Unhandled exception) |
| **Input** | mutated seed by PyRtFuzz |
| **Description** | With specific input, the APP exit with RecursionError |
| **PoC** | PoC\_python3.9\_Vul/RecursionError-email.policy.EmailPolicy.header\_store\_parse.py |
| **Status** | **PoC Done** |

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| **Subject[7]** | Python3.9.15, email.utils.parseaddr |
| **Vulnerability Type** | RecursionError (Unhandled exception) |
| **Input** | mutated seed by PyRtFuzz |
| **Description** | With specific input, the APP exit with RecursionError |
| **PoC** | PoC\_python3.9\_Vul/ RecursionError-email.utils.parseaddr.py |
| **Status** | **PoC Done** |

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| **Subject[8]** | Python3.9.15, locale.format |
| **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\_python3.9\_Vul/MemoryError-locale.format.py  PoC\_python3.9\_Vul/OOM-locale.format.py |
| **Status** | **PoC Done** |

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| **Subject[9]** | Python3.9.15, operator.imod |
| **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\_python3.9\_Vul/MemoryError-operator.imod.py  PoC\_python3.9\_Vul/OOM-operator.imod.py |
| **Status** | **PoC Done** |

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| **Subject[10]** | Python3.9.15, operator.lshift |
| **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\_python3.9\_Vul/MemoryError-operator.lshift.py  PoC\_python3.9\_Vul/OOM-operator.lshift.py |
| **Status** | **PoC Done** |

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| **Subject[11]** | Python3.9.15, operator.mod |
| **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\_python3.9\_Vul/MemoryError-operator.mod.py  PoC\_python3.9\_Vul/OOM-operator.mod.py |
| **Status** | **PoC Done** |

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| **Subject[12]** | Python3.9.15, operator.mul |
| **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\_python3.9\_Vul/MemoryError-operator.mul.py  PoC\_python3.9\_Vul/OOM-operator.mul.py |
| **Status** | **PoC Done** |

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| **Subject[13]** | Python3.9.15, pyclbr.readmodule\_ex |
| **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\_python3.9\_Vul/RecursionError-pyclbr.readmodule\_ex.py |
| **Status** | **PoC Done** |

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| **Subject[14]** | Python3.9.15, pydoc.render\_doc |
| **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\_python3.9\_Vul/MemoryError-pydoc.render\_doc.py |
| **Status** | **PoC Done** |

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| **Subject[15]** | Python3.9.15, secrets.token\_bytes |
| **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\_python3.9\_Vul/MemoryError-secrets.token\_bytes.py  PoC\_python3.9\_Vul/OOM-secrets.token\_bytes.py |
| **Status** | **PoC Done** |

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| **Subject[16]** | Python3.9.15, secrets.token\_bytes |
| **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\_python3.9\_Vul/MemoryError-secrets.token\_bytes.py  PoC\_python3.9\_Vul/OOM-secrets.token\_bytes.py |
| **Status** | **PoC Done** |

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| **Subject[17]** | Python3.9.15, secrets.token\_hex |
| **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\_python3.9\_Vul/MemoryError-secrets.token\_hex.py  PoC\_python3.9\_Vul/OOM-secrets.token\_hex.py |
| **Status** | **PoC Done** |

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| **Subject[18]** | Python3.9.15, signal.sigwait |
| **Vulnerability Type** | HangUp |
| **Input** | mutated seed by PyRtFuzz |
| **Description** | With specific input, the APP hangs up |
| **PoC** | PoC\_python3.9\_Vul/HangUp-signal.sigwait.py |
| **Status** | **PoC Done** |

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| **Subject[19]** | Python3.9.15, socket.socket.makefile |
| **Vulnerability Type** | MemoryError (Unhandled exception) |
| **Input** | mutated seed by PyRtFuzz |
| **Description** | With specific input, the APP exit with MemoryError |
| **PoC** | PoC\_python3.9\_Vul/MemoryError-socket.socket.makefile.py |
| **Status** | **PoC Done** |

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| **Subject[20]** | Python3.9.15, string.Formatter.format\_field |
| **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\_python3.9\_Vul/ MemoryError-string.Formatter.format\_field.py  PoC\_python3.9\_Vul/OOM-string.Formatter.format\_field.py |
| **Status** | **PoC Done** |

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| **Subject[21]** | Python3.9.15, tarfile.itn |
| **Vulnerability Type** | HangUp |
| **Input** | mutated seed by PyRtFuzz |
| **Description** | With specific input, the APP hangs up |
| **PoC** | PoC\_python3.9\_Vul/HangUp-tarfile.itn.py |
| **Status** | **PoC Done** |

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| **Subject[22]** | Python3.9.15, tarfile.stn |
| **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\_python3.9\_Vul/ MemoryError-tarfile.stn.py  PoC\_python3.9\_Vul/OOM-tarfile.stn.py |
| **Status** | **PoC Done** |

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| **Subject[23]** | Python3.9.15, turtledemo.nim.computerzug |
| **Vulnerability Type** | HangUp |
| **Input** | mutated seed by PyRtFuzz |
| **Description** | With specific input, the APP hangs up |
| **PoC** | PoC\_python3.9\_Vul/HangUp-turtledemo.nim.computerzug.py |
| **Status** | **PoC Done** |

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| **Subject[24]** | Python3.9.15, turtledemo.nim.randommove |
| **Vulnerability Type** | HangUp |
| **Input** | mutated seed by PyRtFuzz |
| **Description** | With specific input, the APP hangs up |
| **PoC** | PoC\_python3.9\_Vul/HangUp-turtledemo.nim.randommove.py |
| **Status** | **PoC Done** |

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| **Subject[25]** | Python3.9.15, xmlrpc.client.gzip\_decode |
| **Vulnerability Type** | MemoryError (Unhandled exception) |
| **Input** | mutated seed by PyRtFuzz |
| **Description** | With specific input, the APP exit with MemoryError |
| **PoC** | PoC\_python3.9\_Vul/MemoryError-xmlrpc.client.gzip\_decode.py |
| **Status** | **PoC Done** |