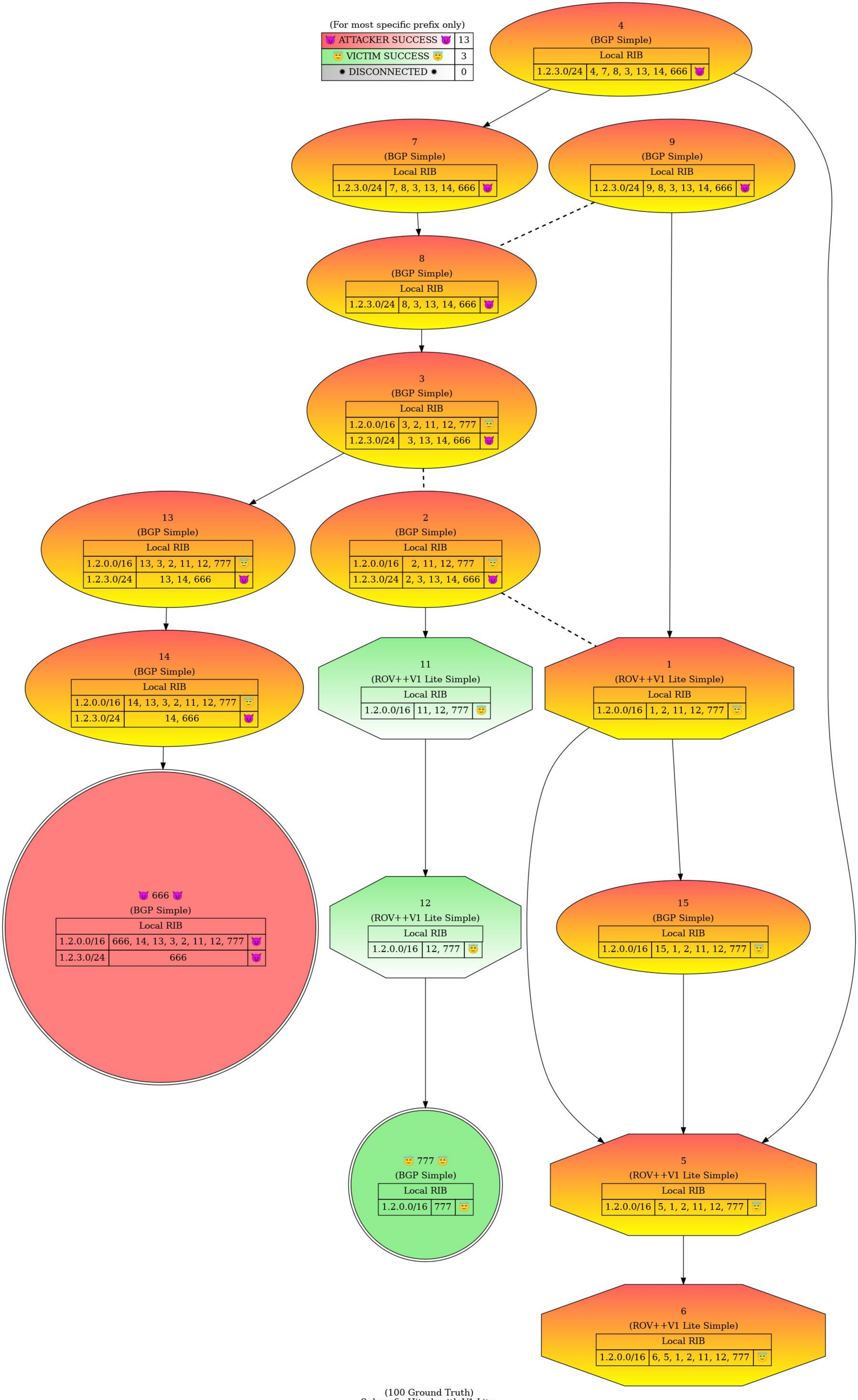
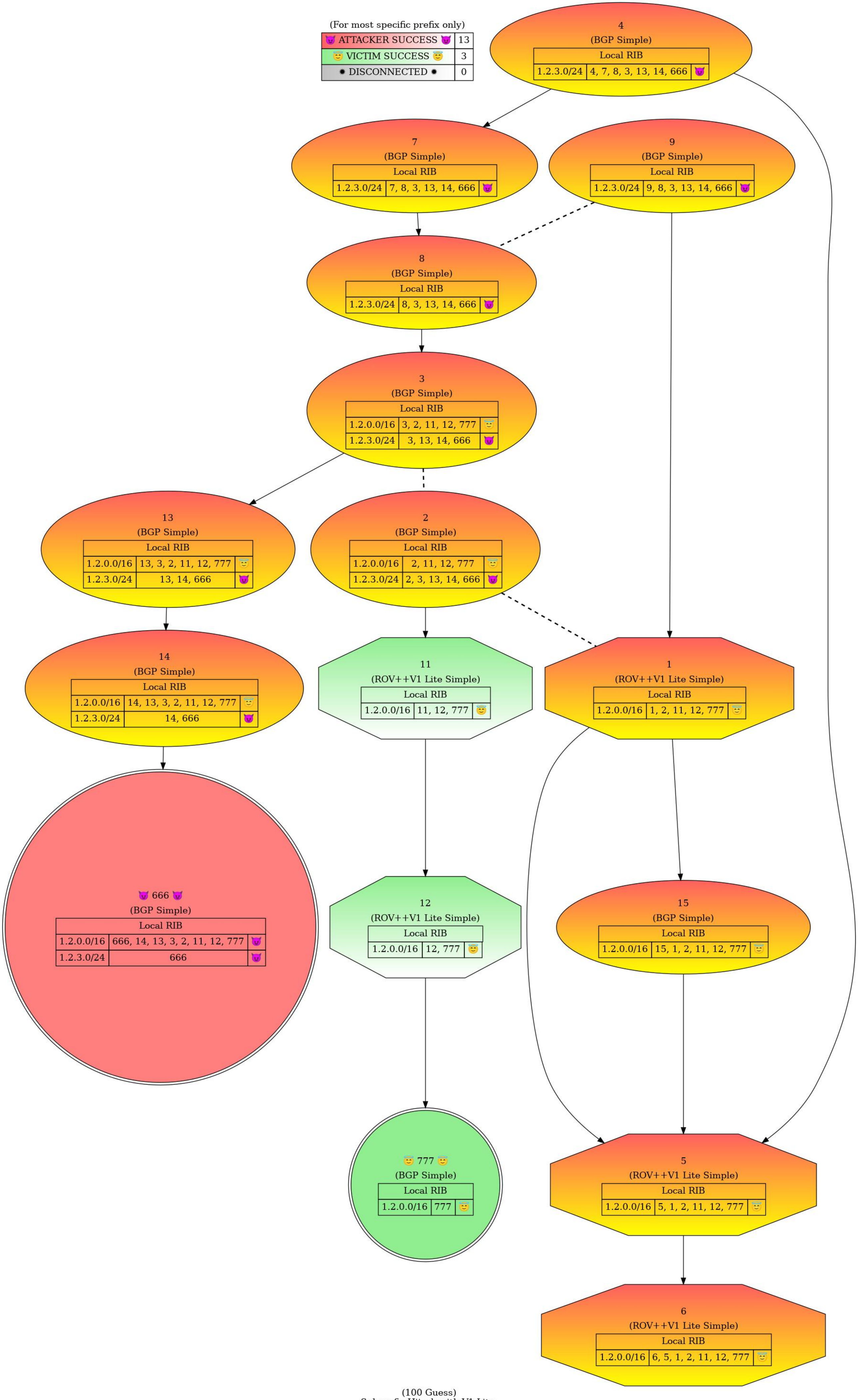
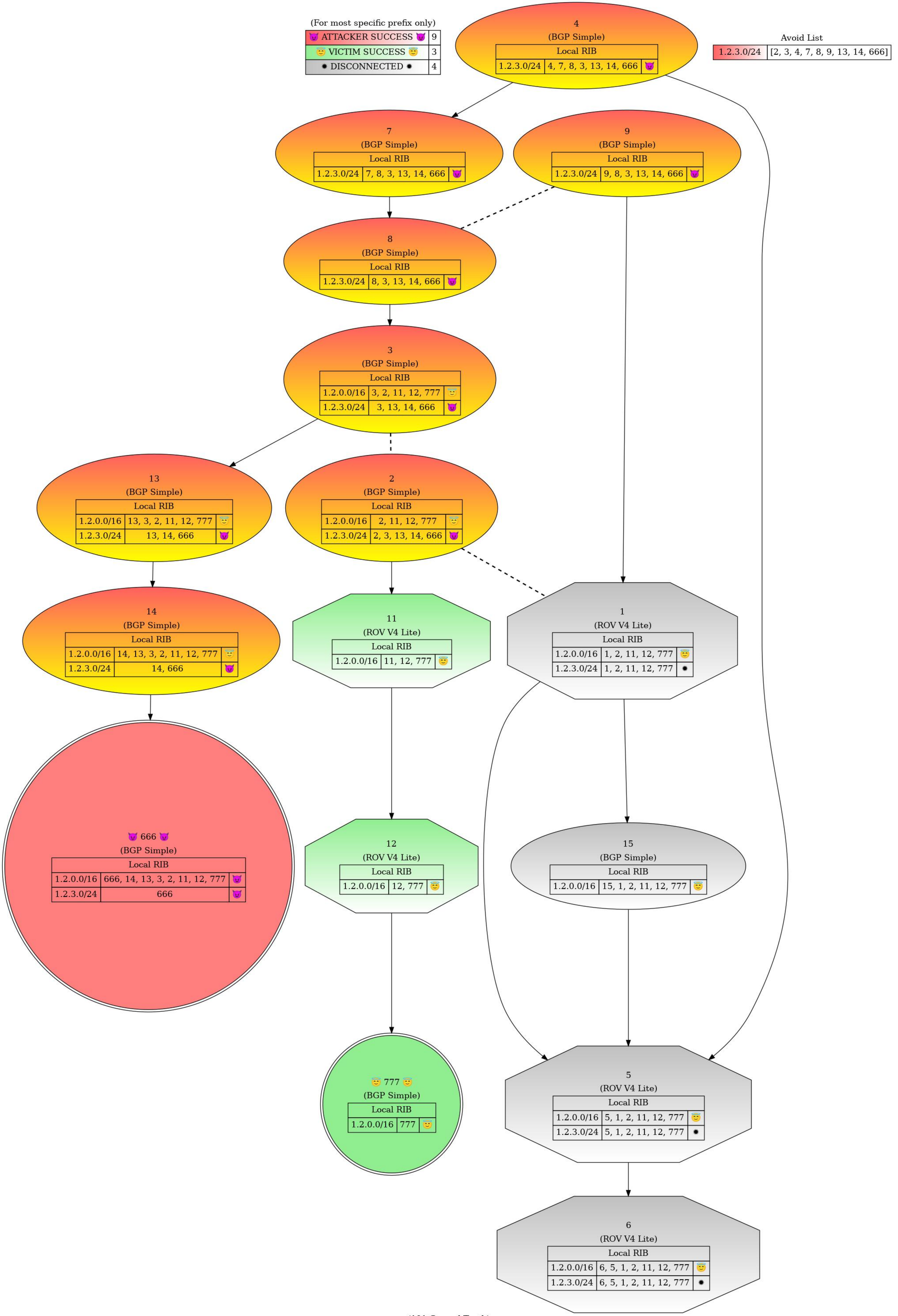


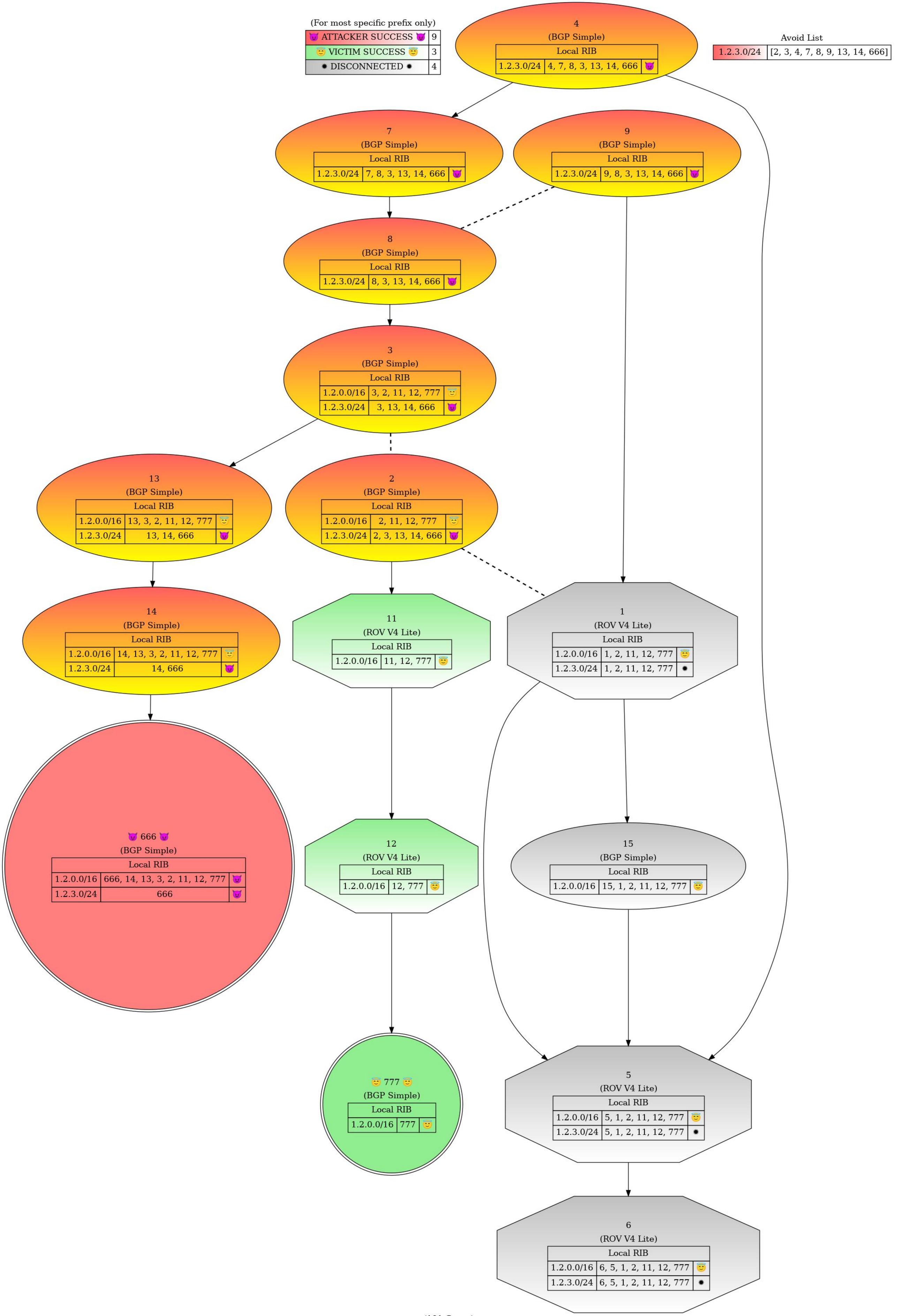

(100 Ground Truth)
Subprefix Hijack with V1 Lite.
Traceback for 1.2.3.0/24



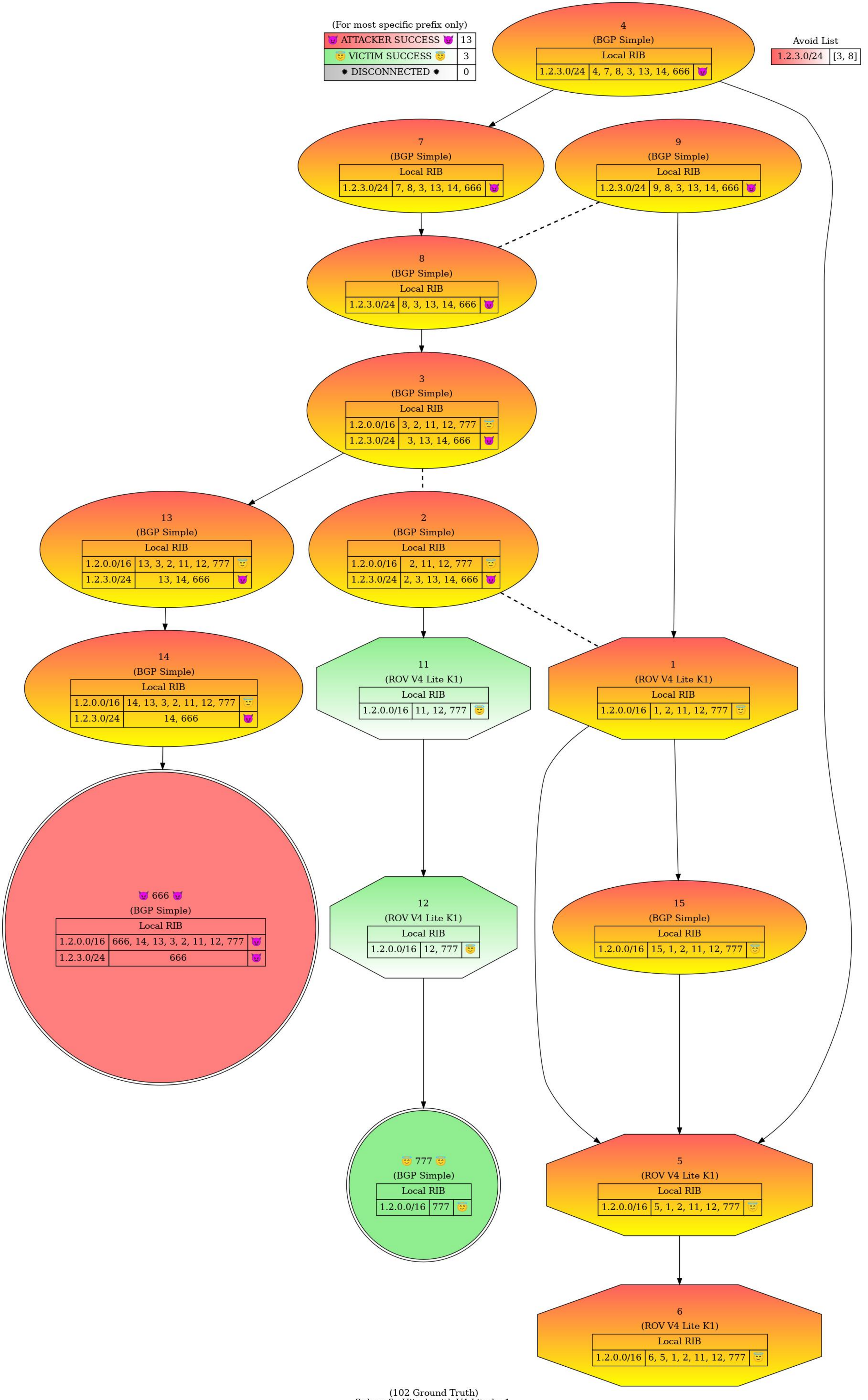

(100 Guess)
Subprefix Hijack with V1 Lite.
Traceback for 1.2.3.0/24



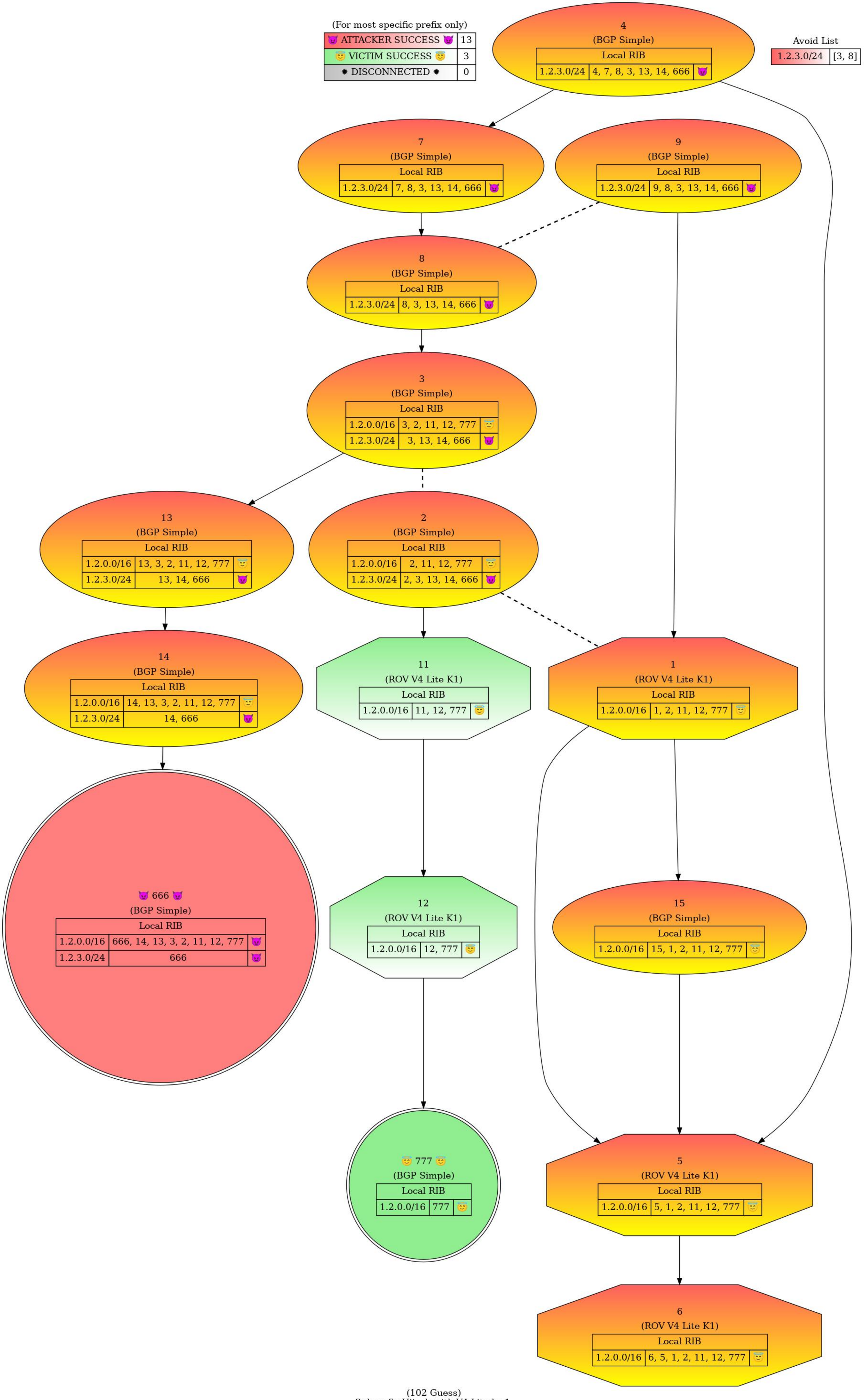

(101 Ground Truth)
Subprefix Hijack with V4 Lite.
Traceback for 1.2.3.0/24



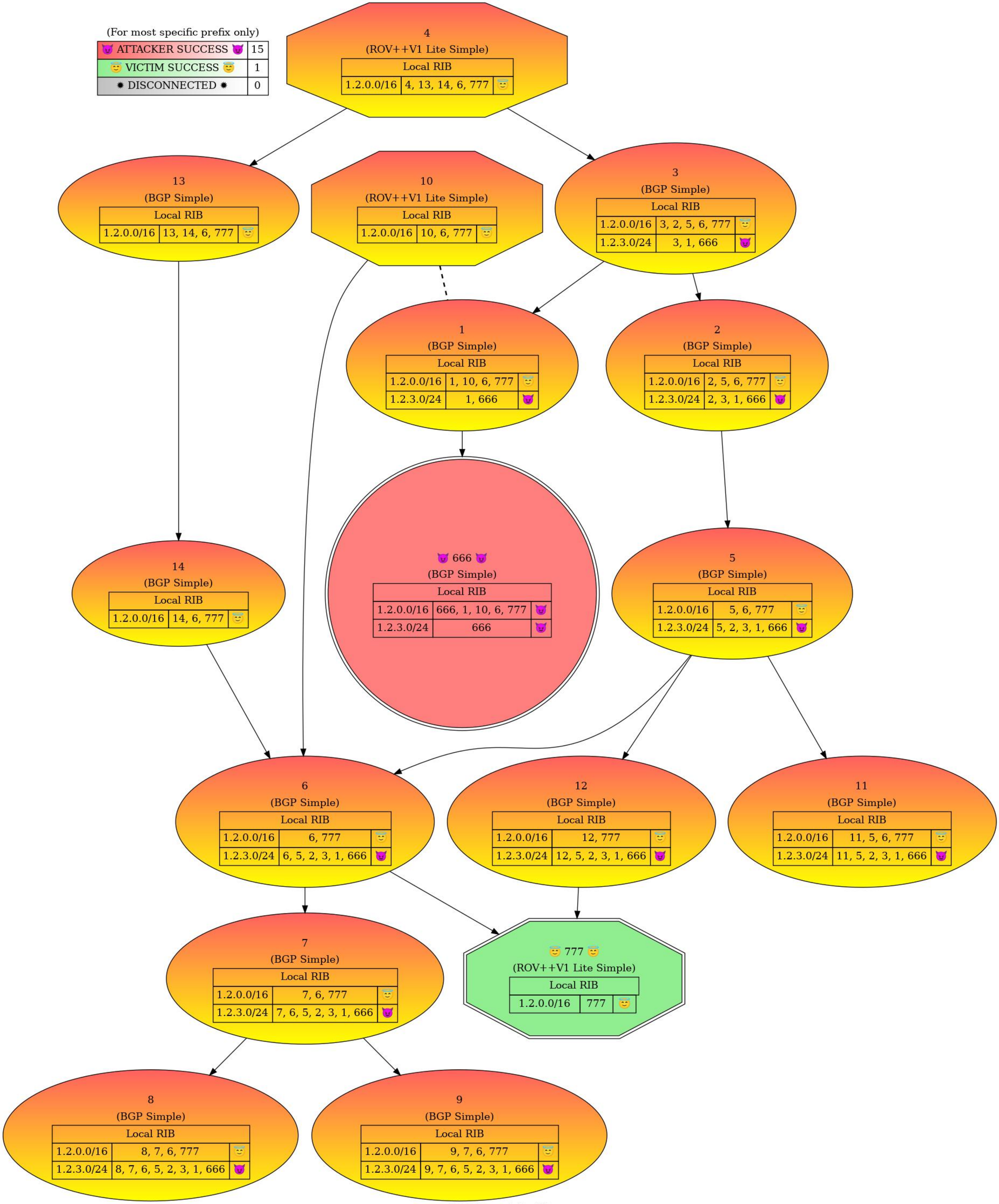

(101 Guess)
Subprefix Hijack with V4 Lite.
Traceback for 1.2.3.0/24



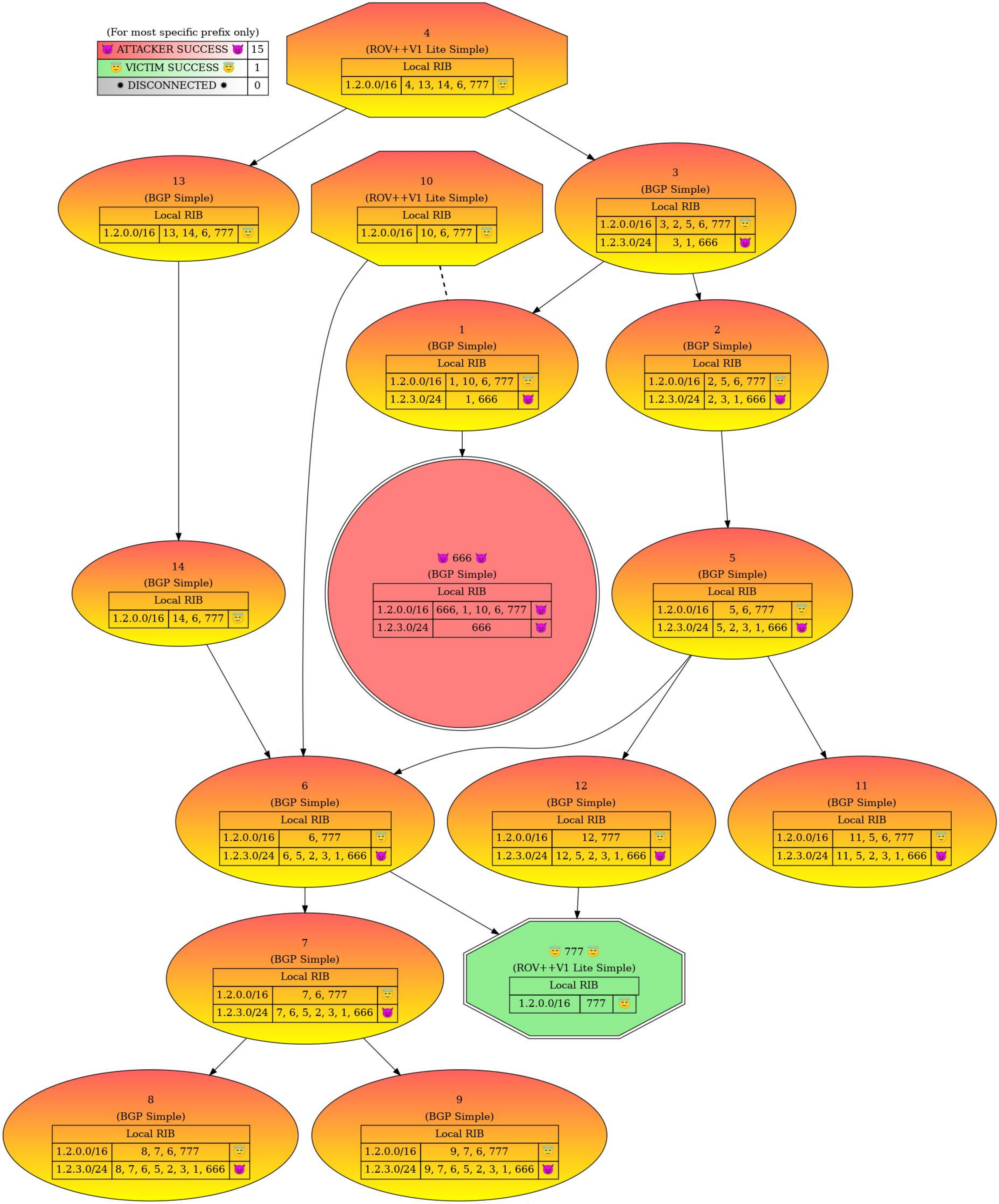

(102 Ground Truth)
Subprefix Hijack with V4 Lite k=1.
Traceback for 1.2.3.0/24



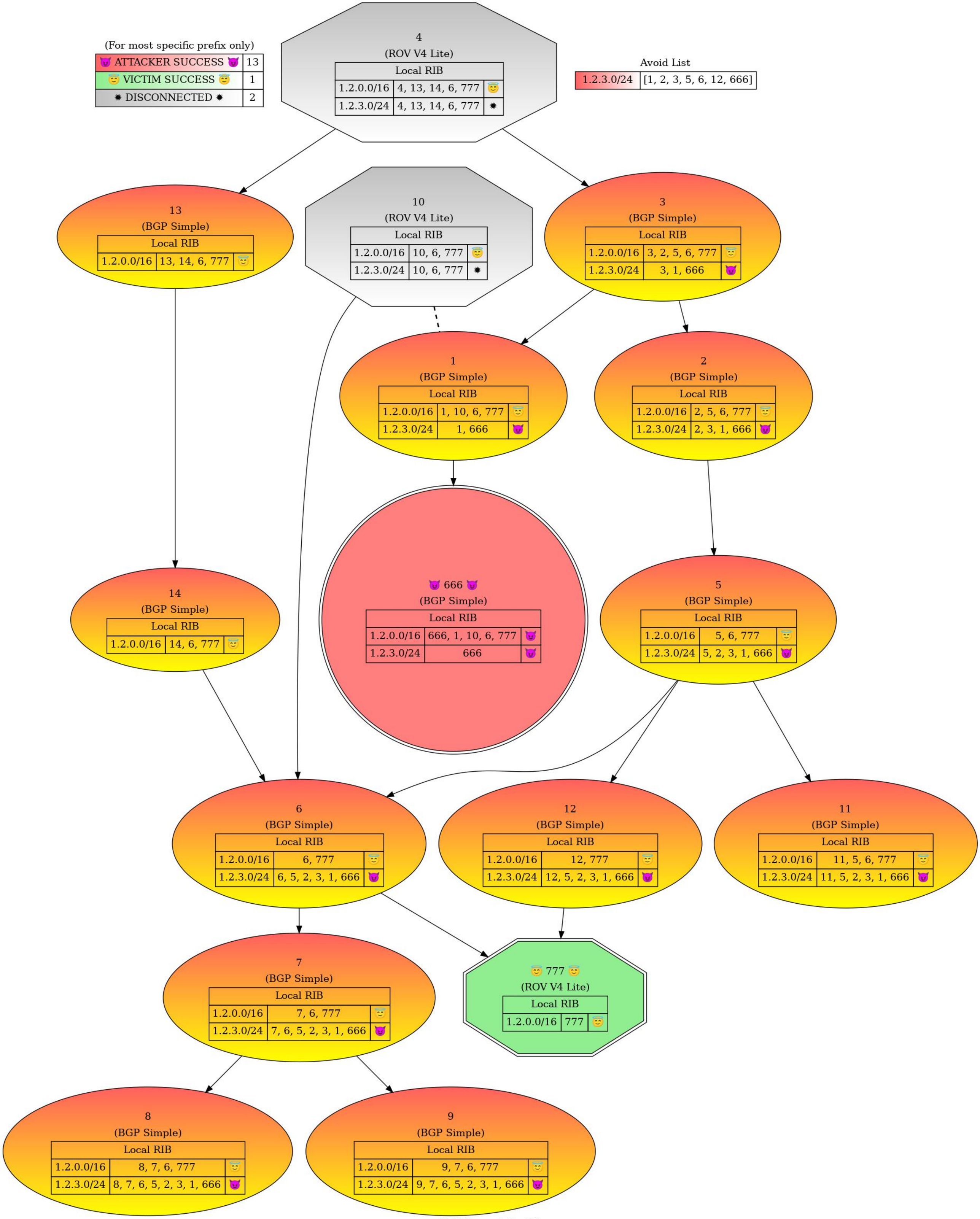

(102 Guess)
Subprefix Hijack with V4 Lite k=1.
Traceback for 1.2.3.0/24



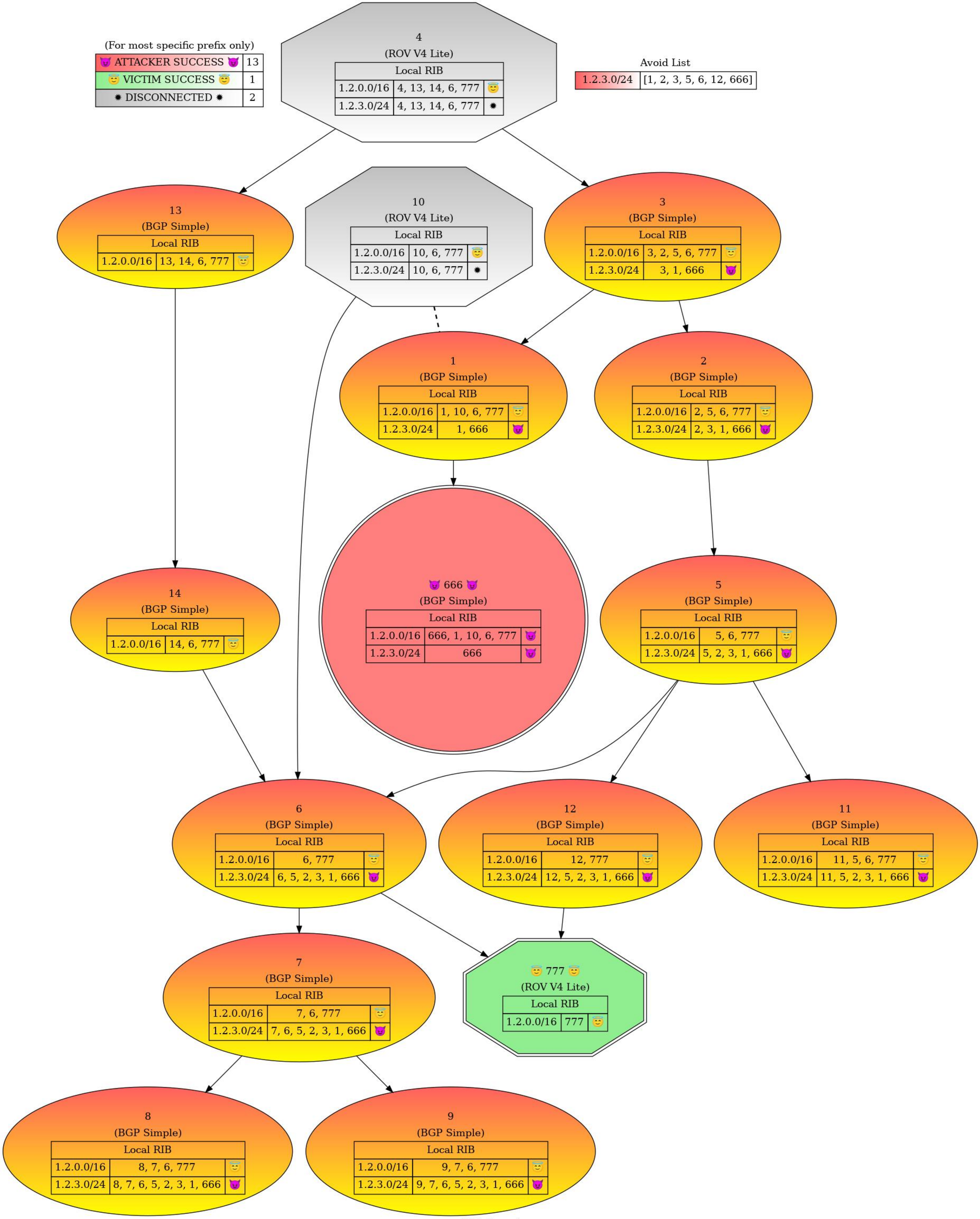

(103 Ground Truth)
Subprefix Hijack with V1 Lite.
Traceback for 1.2.3.0/24



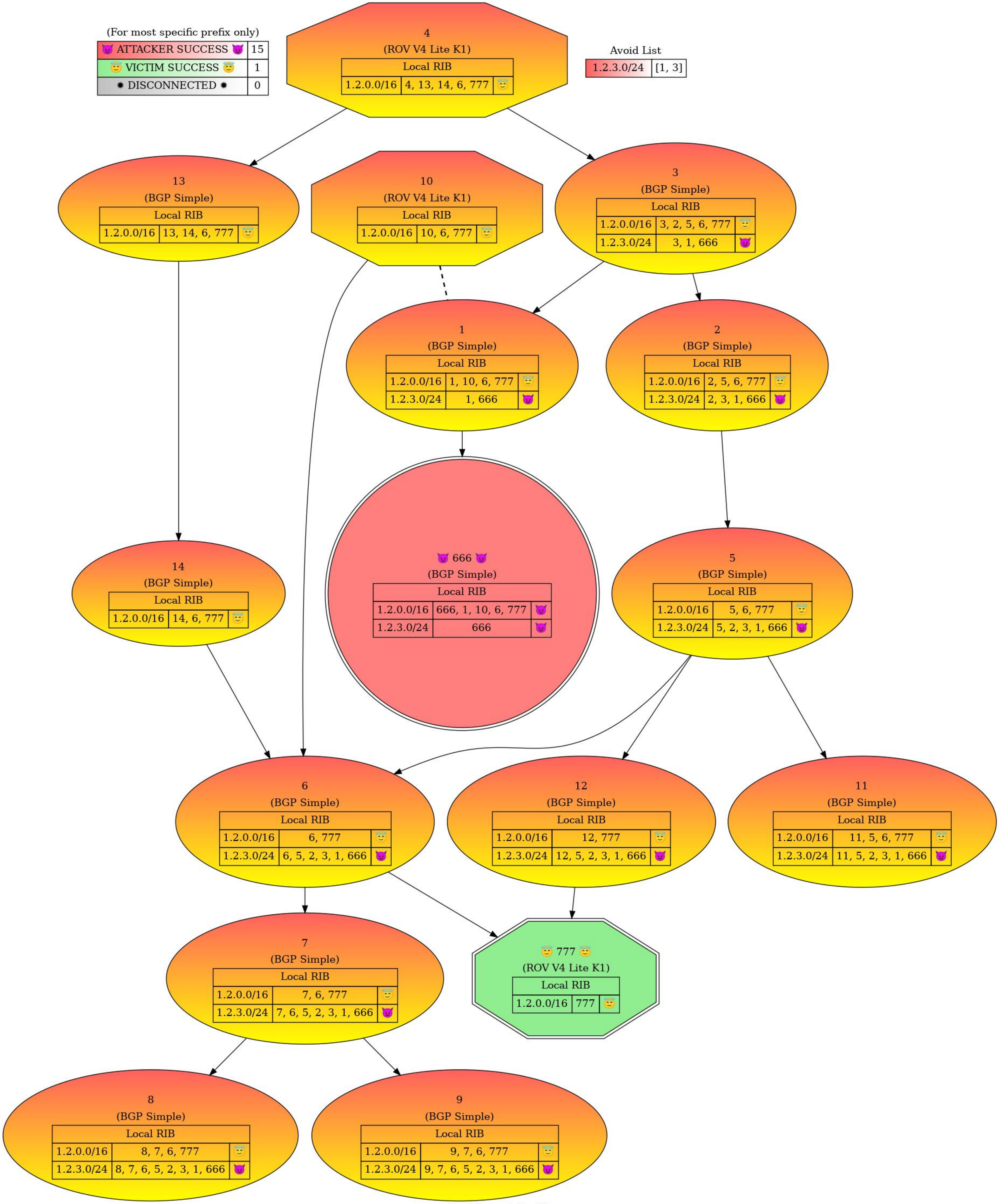

(103 Guess)
Subprefix Hijack with V1 Lite.
Traceback for 1.2.3.0/24



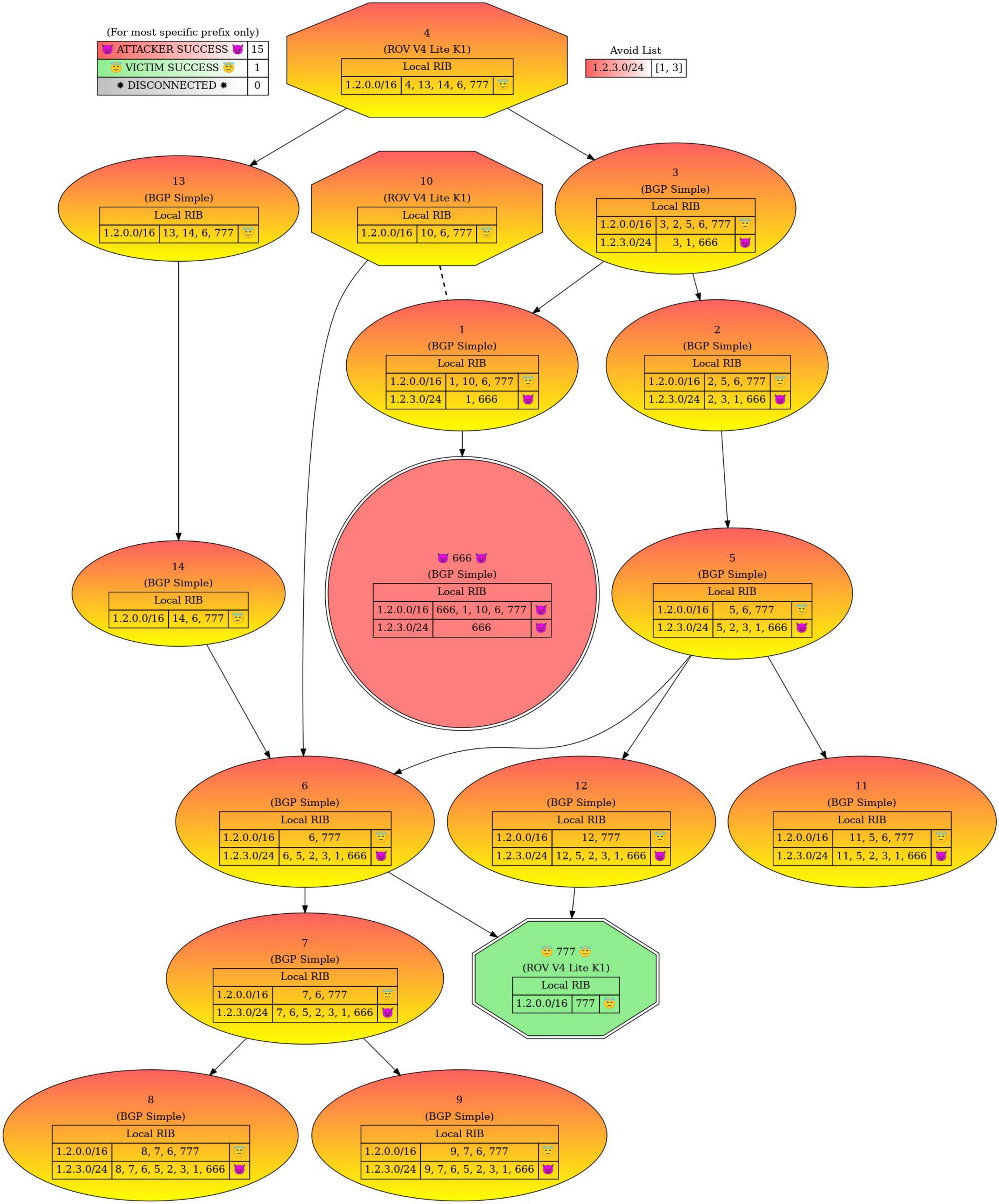

(104 Ground Truth)
Subprefix Hijack with V4 Lite.
Traceback for 1.2.3.0/24



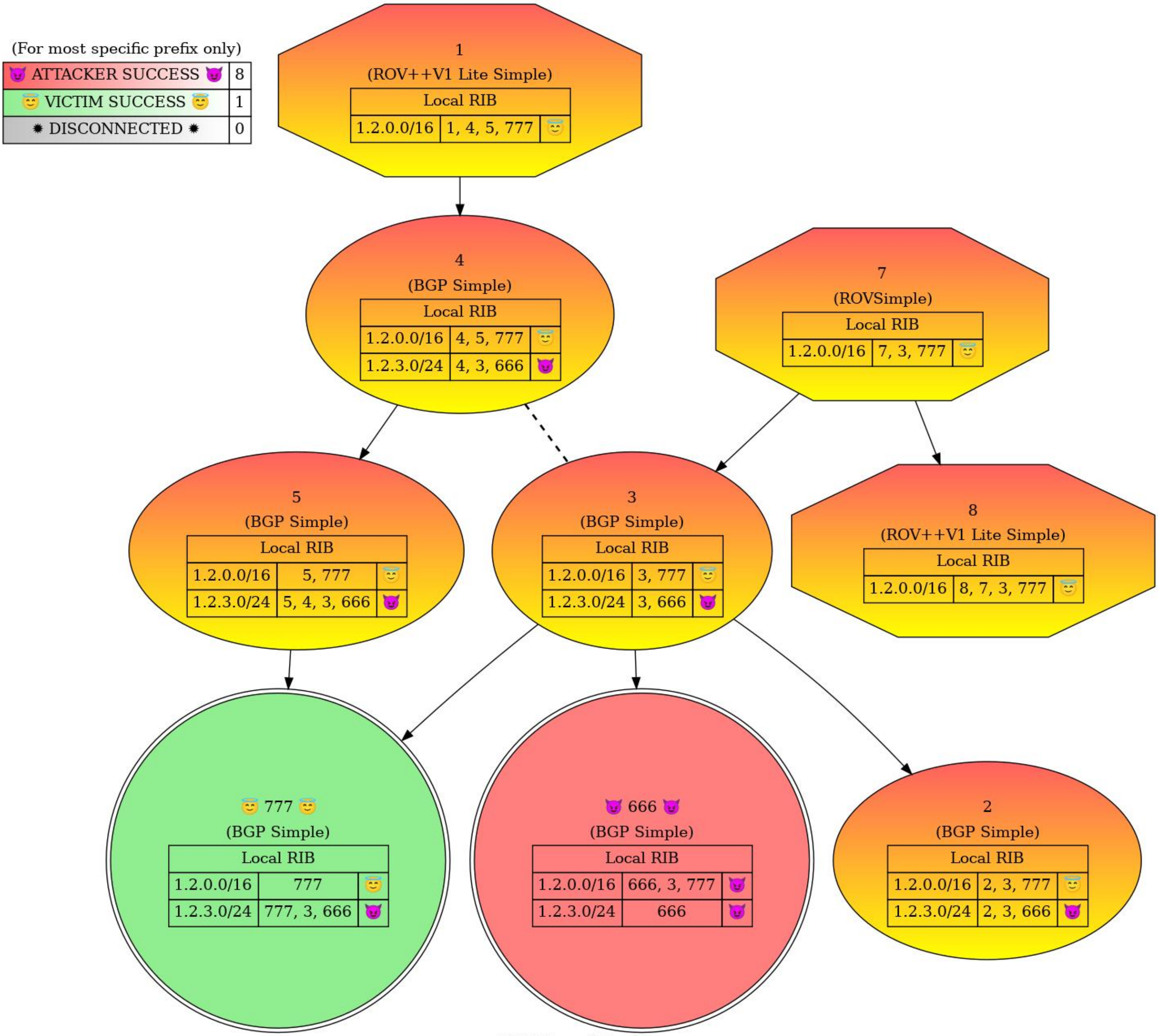

(104 Guess)
Subprefix Hijack with V4 Lite.
Traceback for 1.2.3.0/24



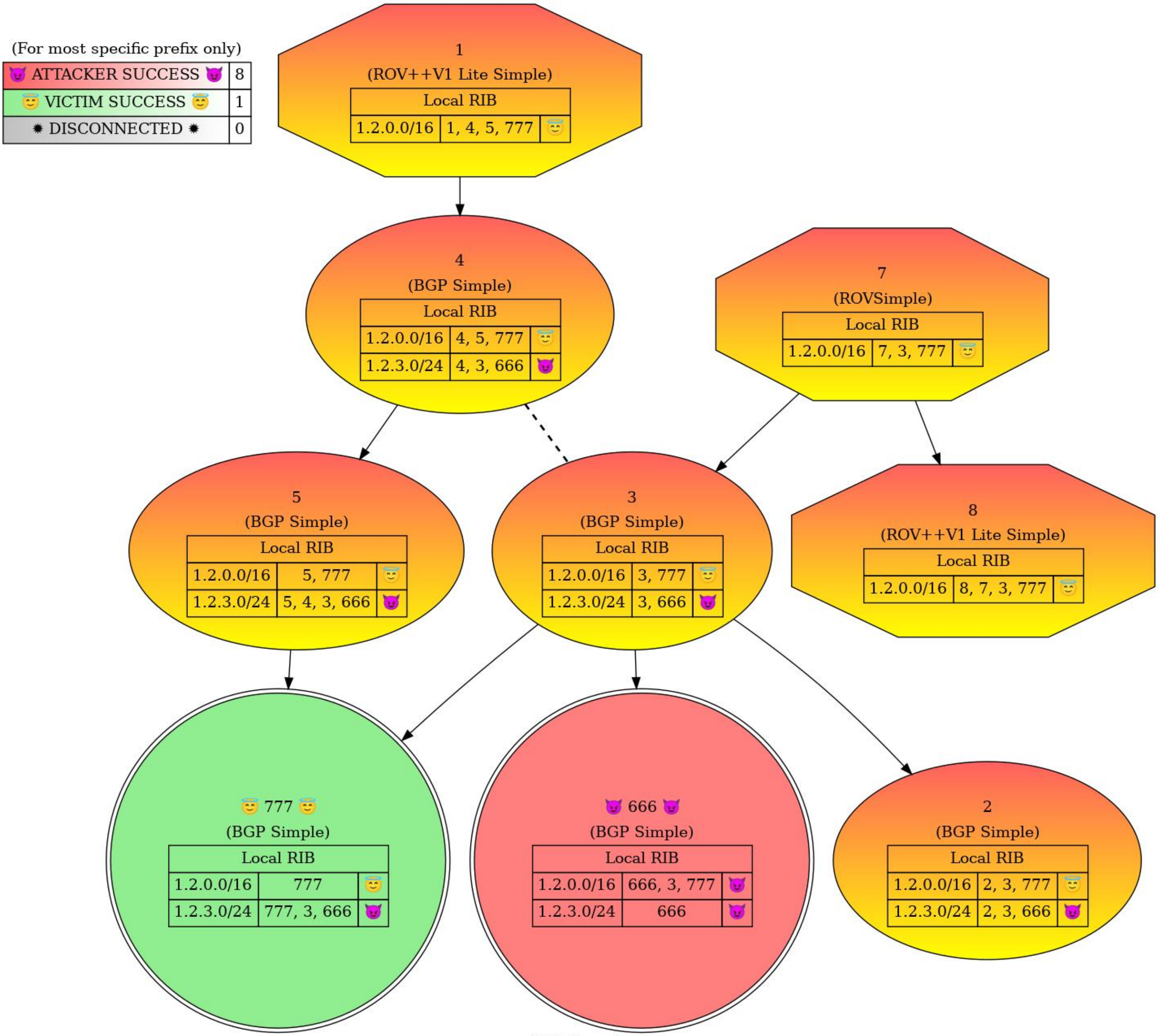

(105 Ground Truth)
Subprefix Hijack with V4 Lite k=1.
Traceback for 1.2.3.0/24



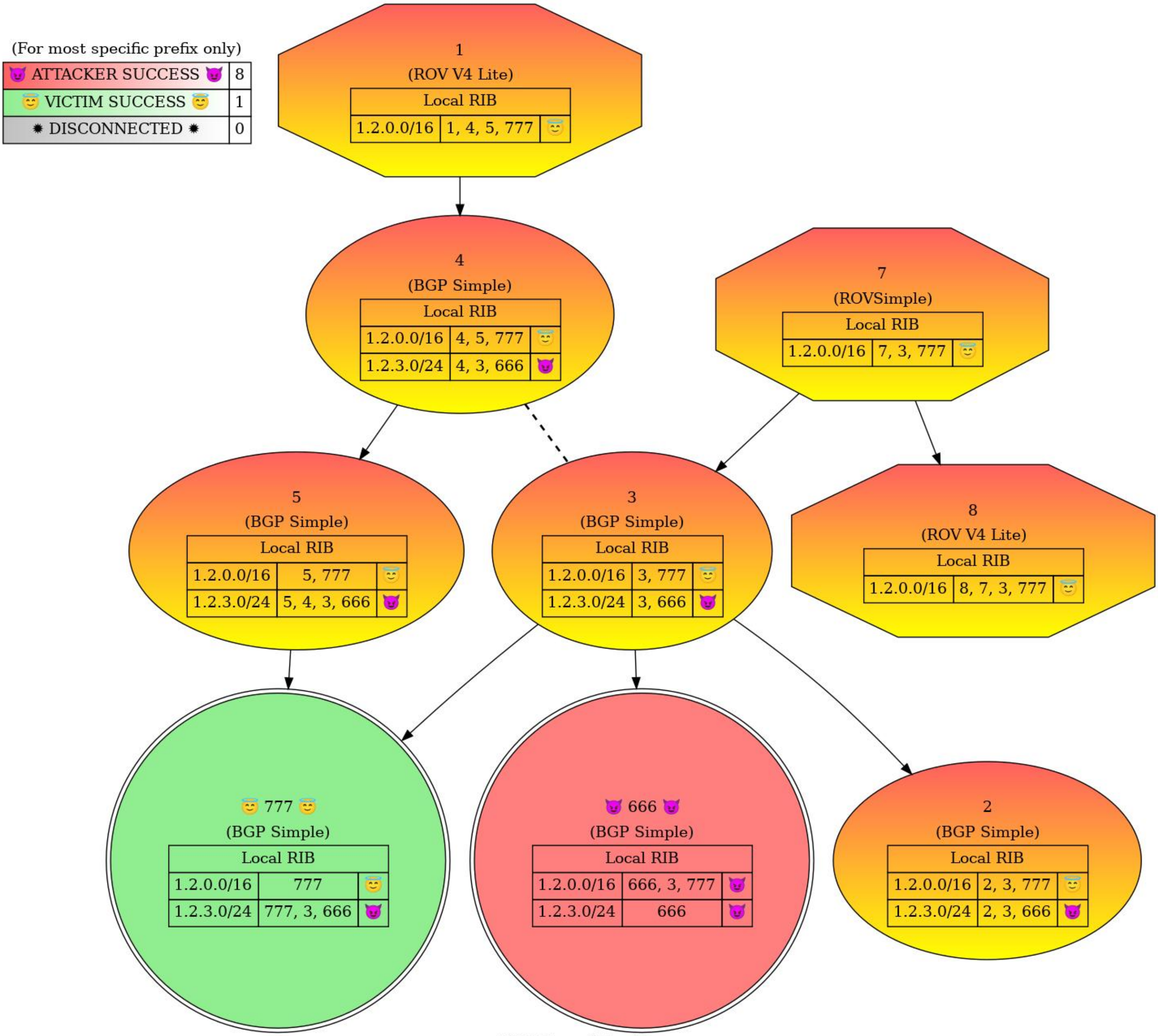

(105 Guess)
Subprefix Hijack with V4 Lite k=1.
Traceback for 1.2.3.0/24



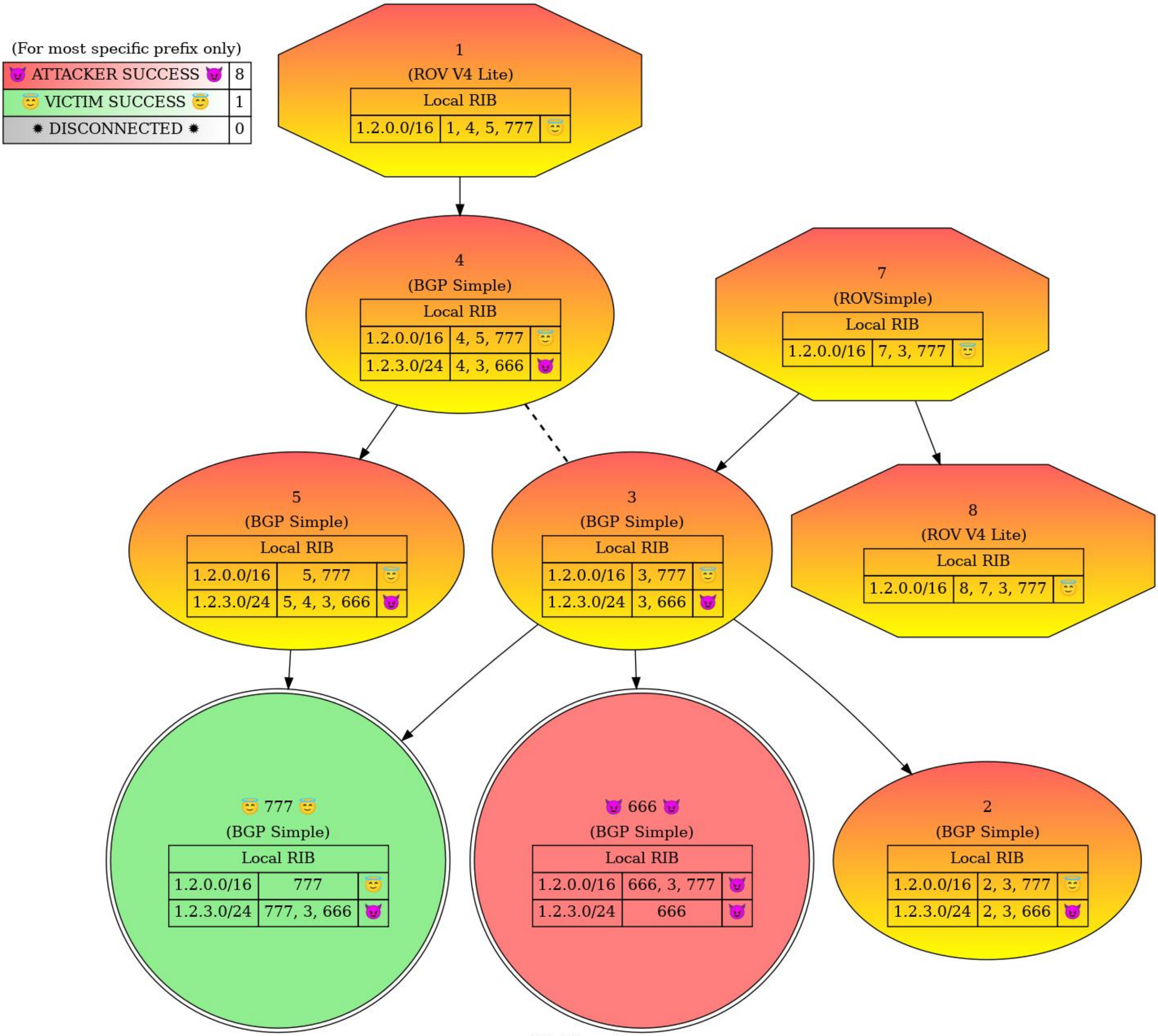

(106 Ground Truth)
Subprefix Hijack with V1 Lite.
Traceback for 1.2.3.0/24



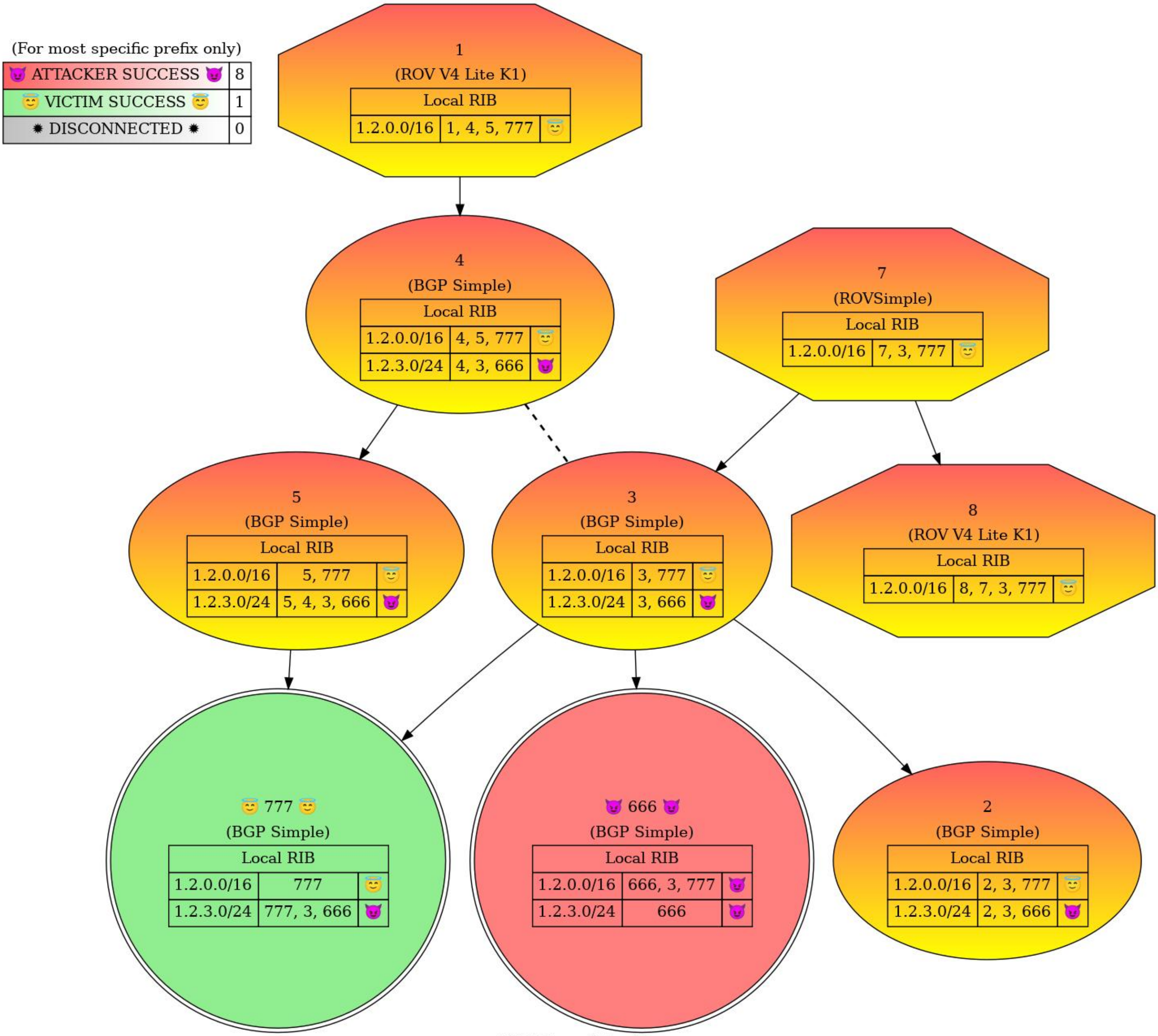

(106 Guess)
Subprefix Hijack with V1 Lite.
Traceback for 1.2.3.0/24



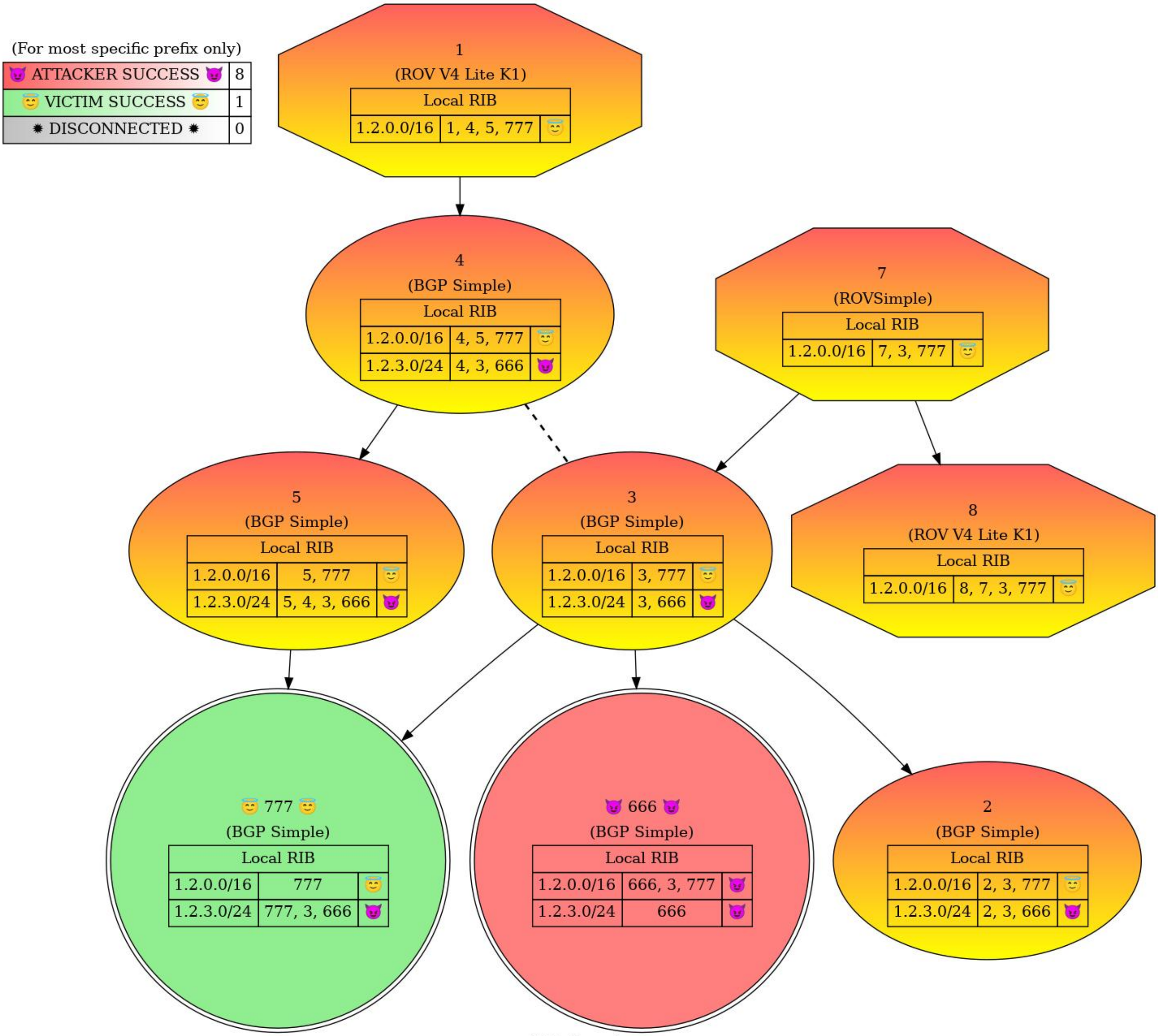

(107 Ground Truth)
Subprefix Hijack with V4 Lite.
Traceback for 1.2.3.0/24



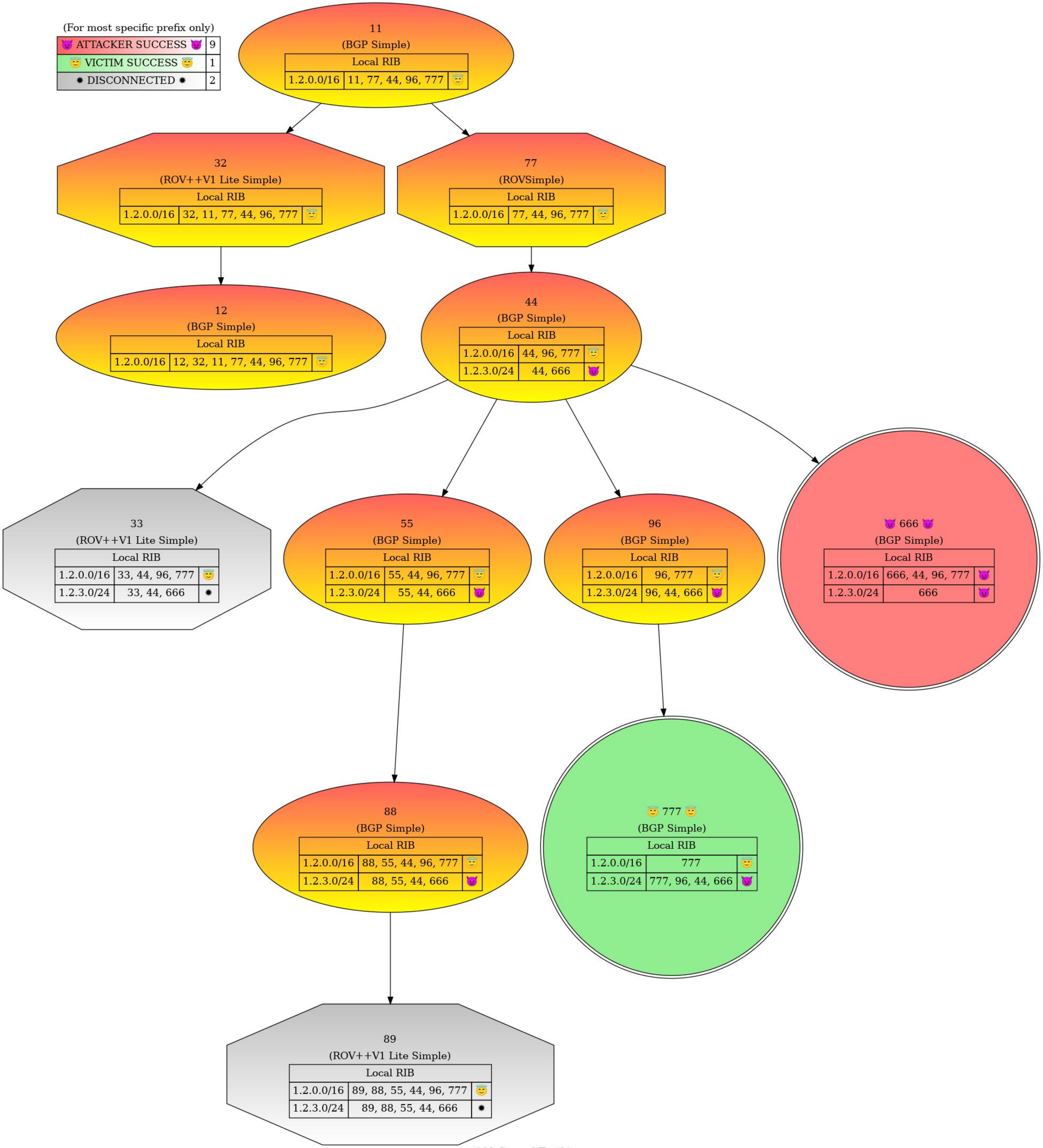

(107 Guess)
Subprefix Hijack with V4 Lite.
Traceback for 1.2.3.0/24



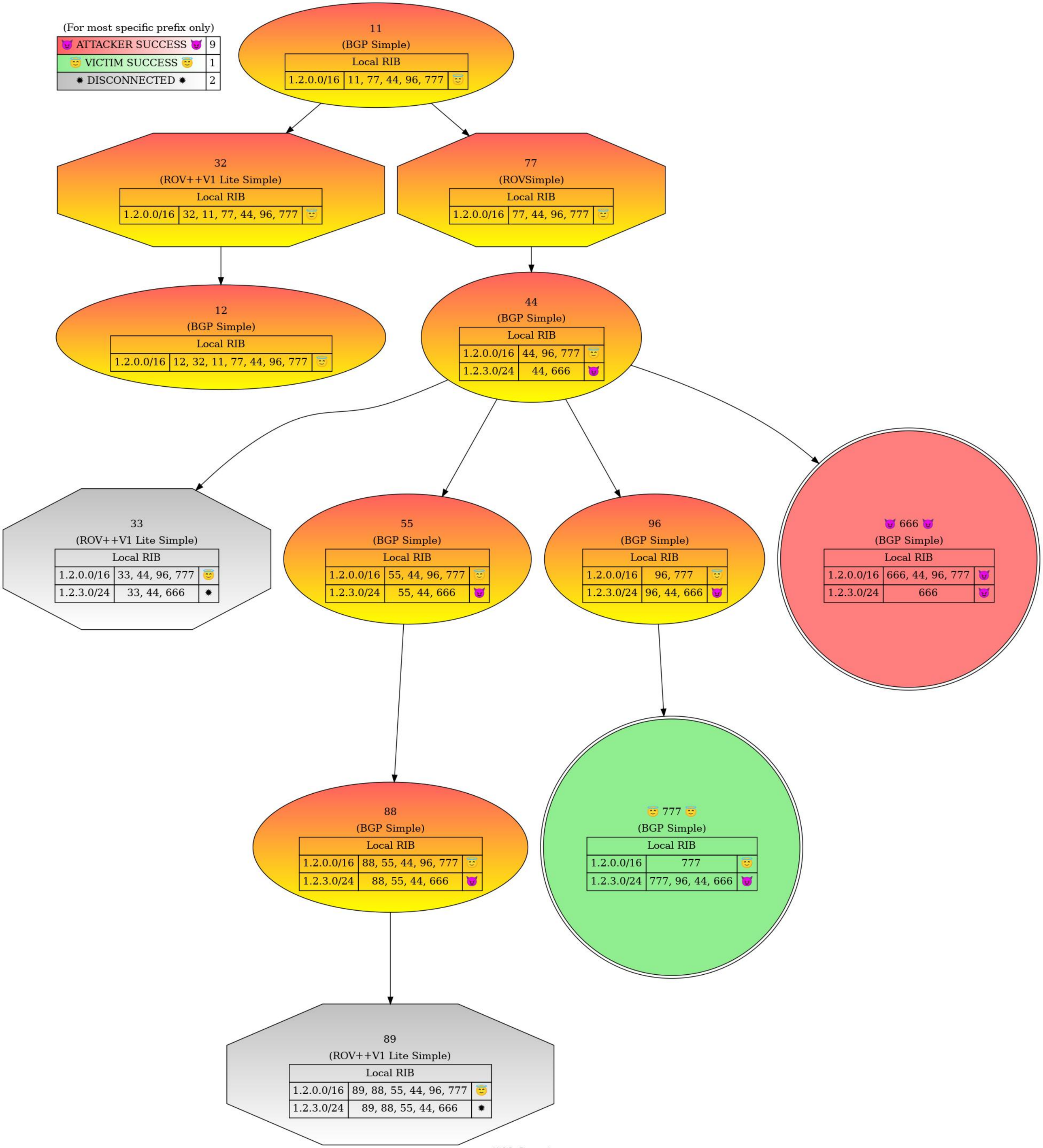

(108 Ground Truth)
Subprefix Hijack with V4 Lite k=1.
Traceback for 1.2.3.0/24



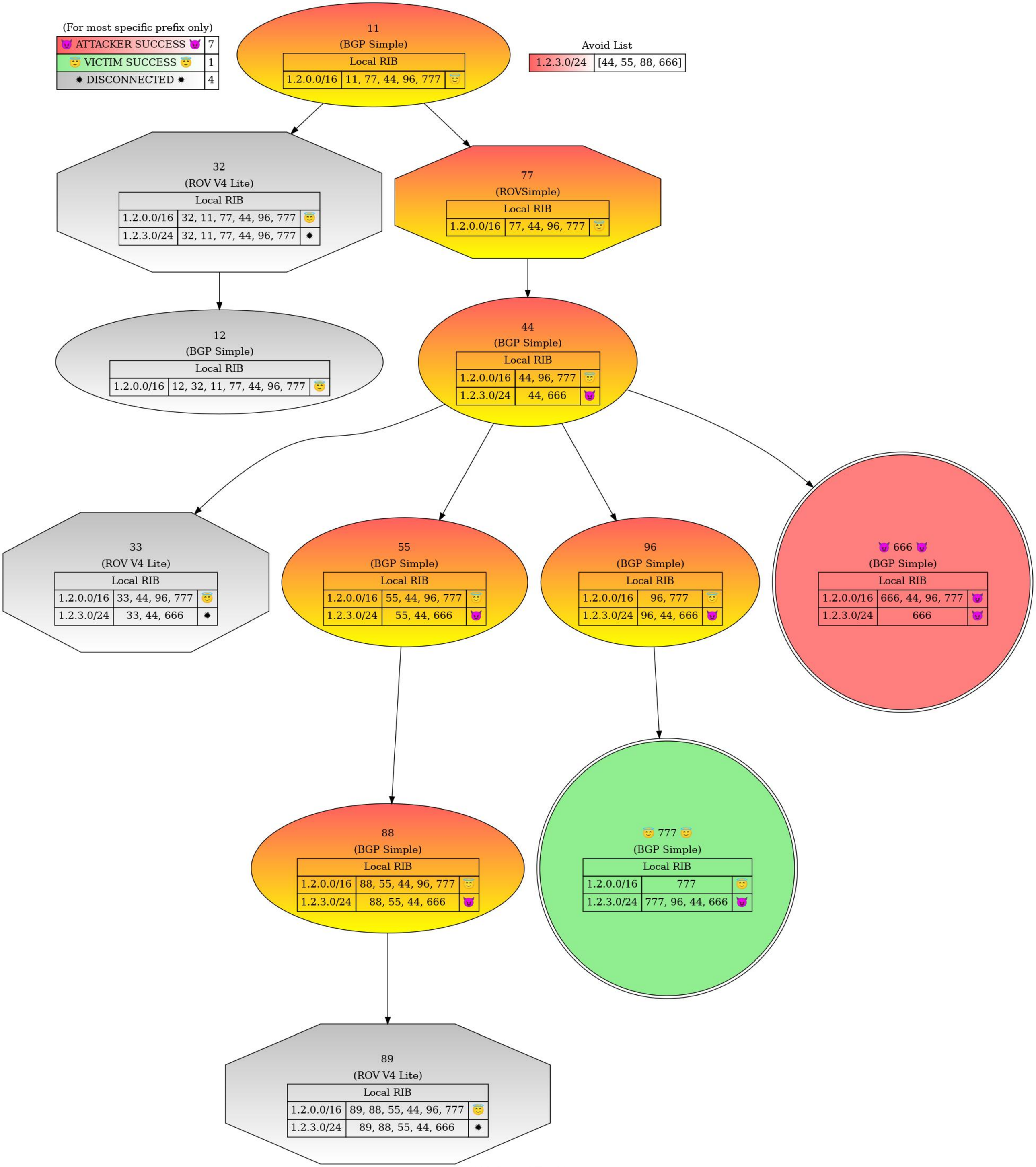

(108 Guess)
Subprefix Hijack with V4 Lite k=1.
Traceback for 1.2.3.0/24



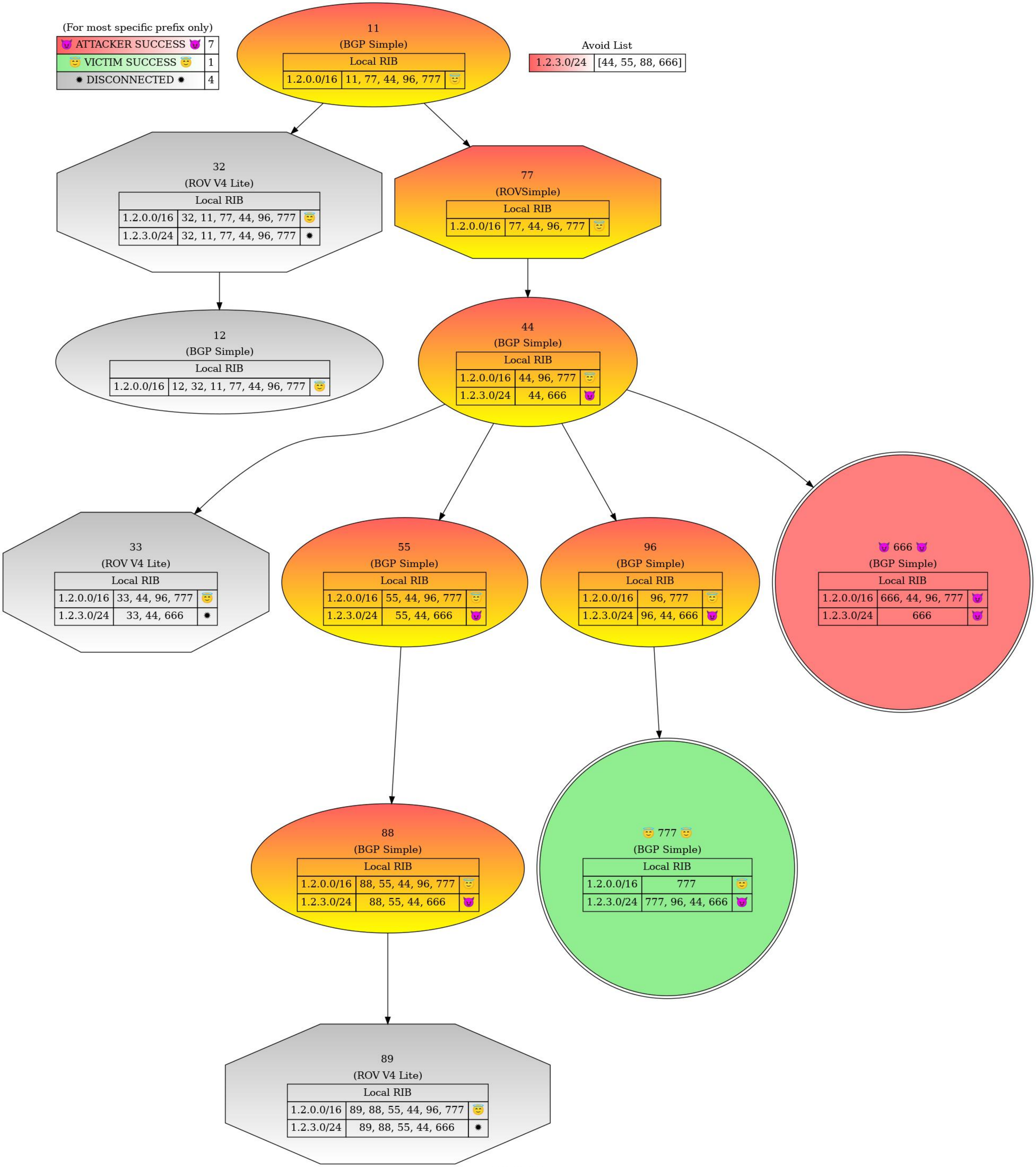

(109 Ground Truth)
Subprefix Hijack with V1 Lite.
Traceback for 1.2.3.0/24



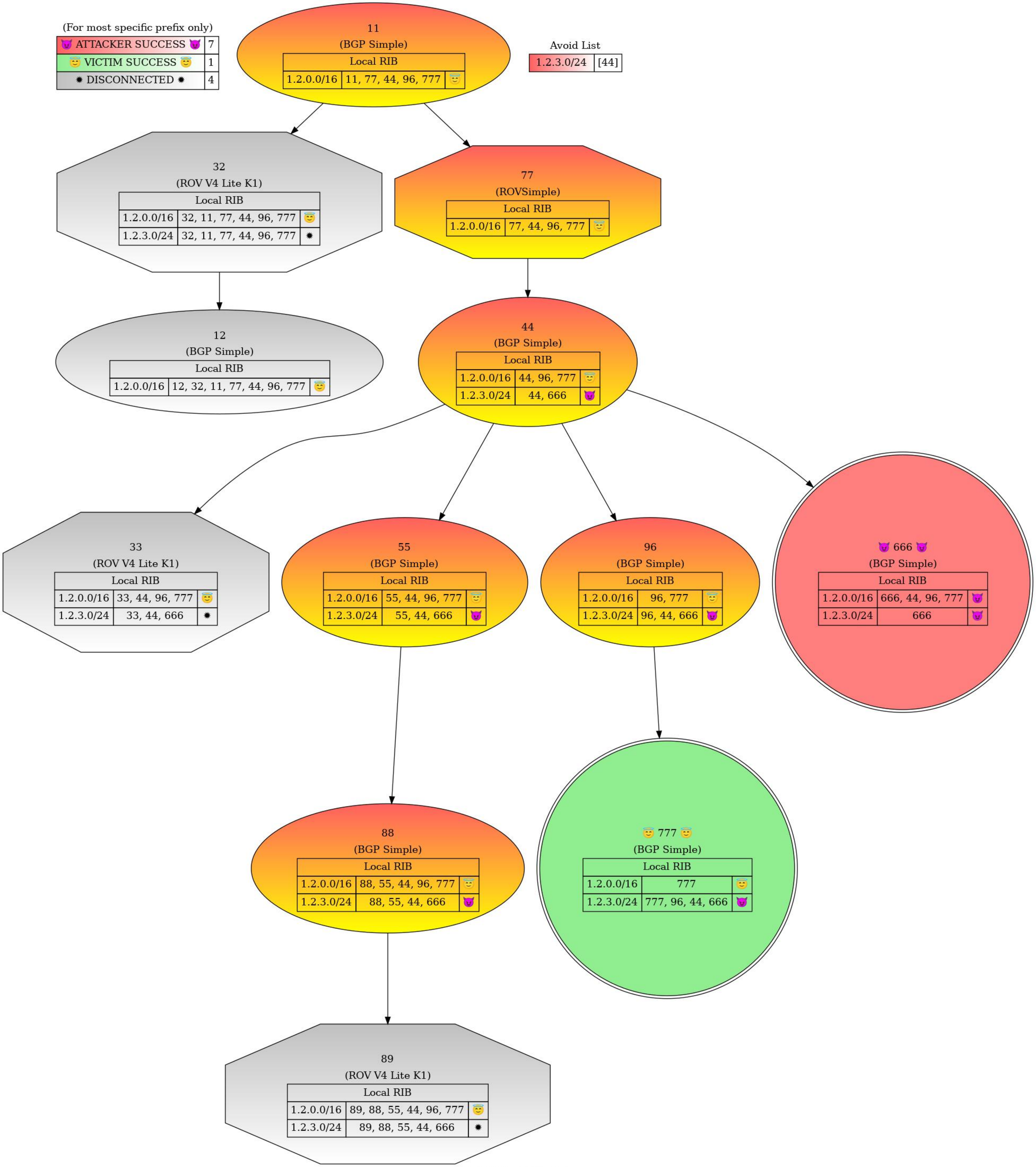

(109 Guess)
Subprefix Hijack with V1 Lite.
Traceback for 1.2.3.0/24



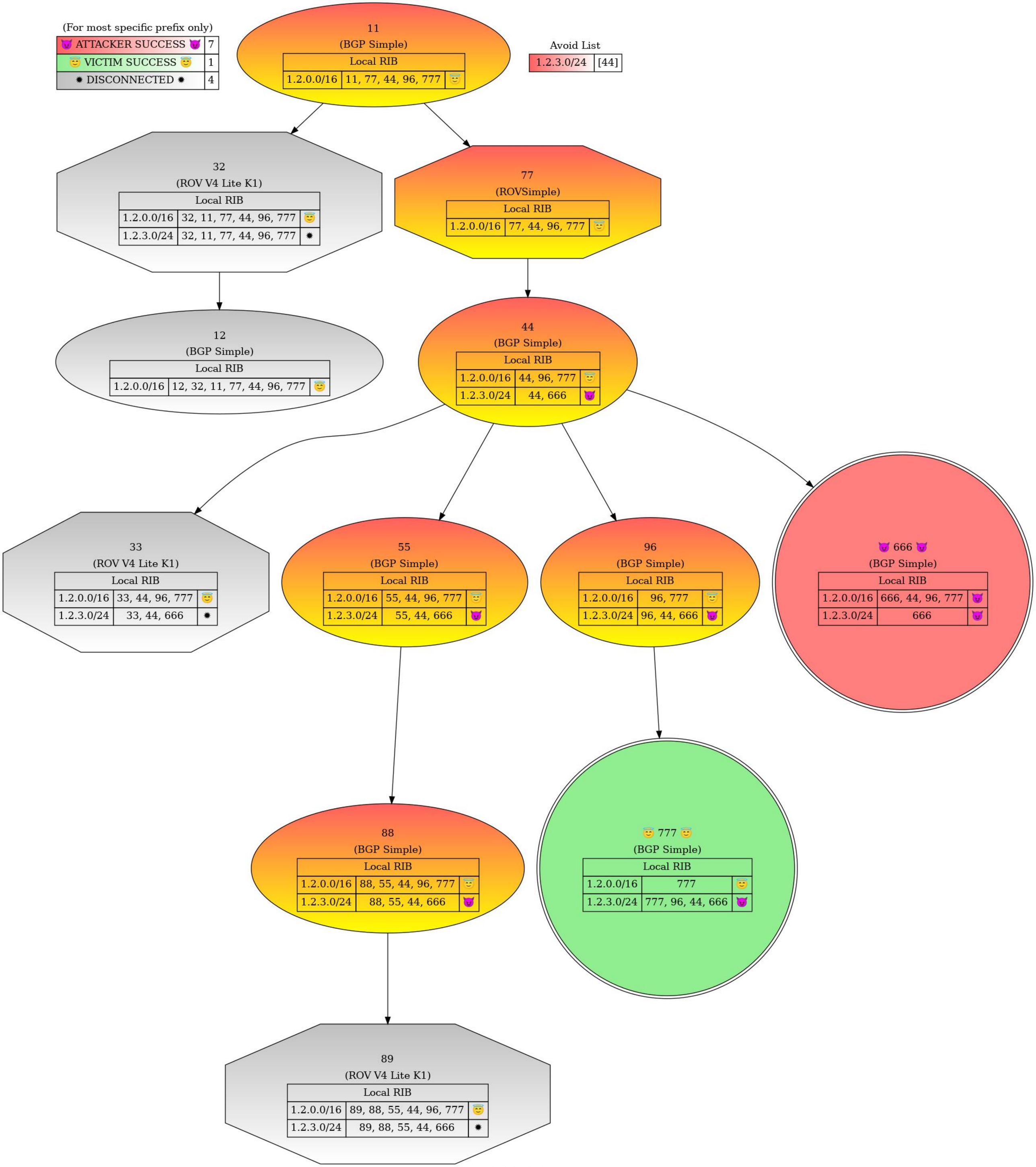

(110 Ground Truth)
Subprefix Hijack with V4 Lite.
Traceback for 1.2.3.0/24



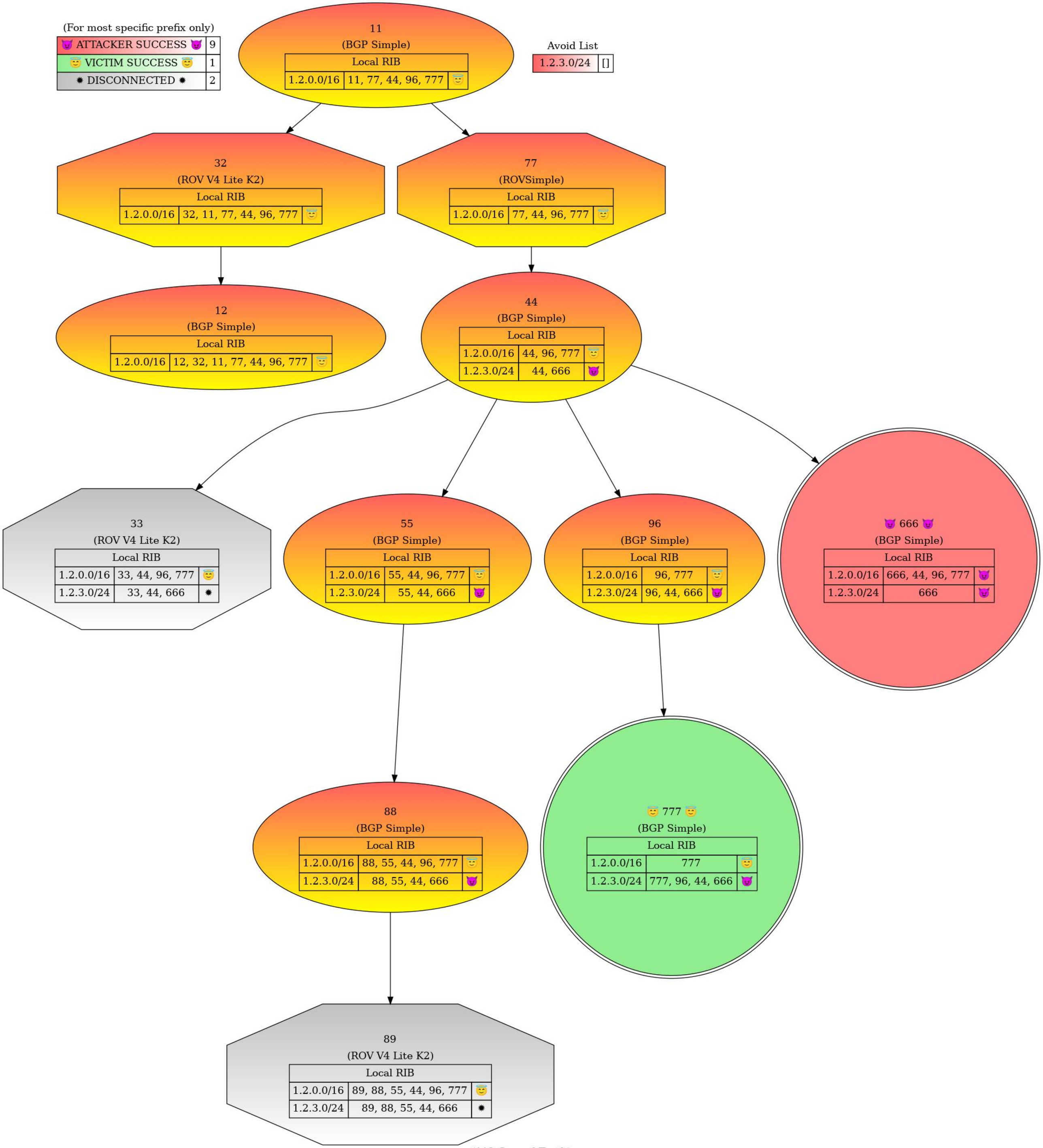

(110 Guess)
Subprefix Hijack with V4 Lite.
Traceback for 1.2.3.0/24



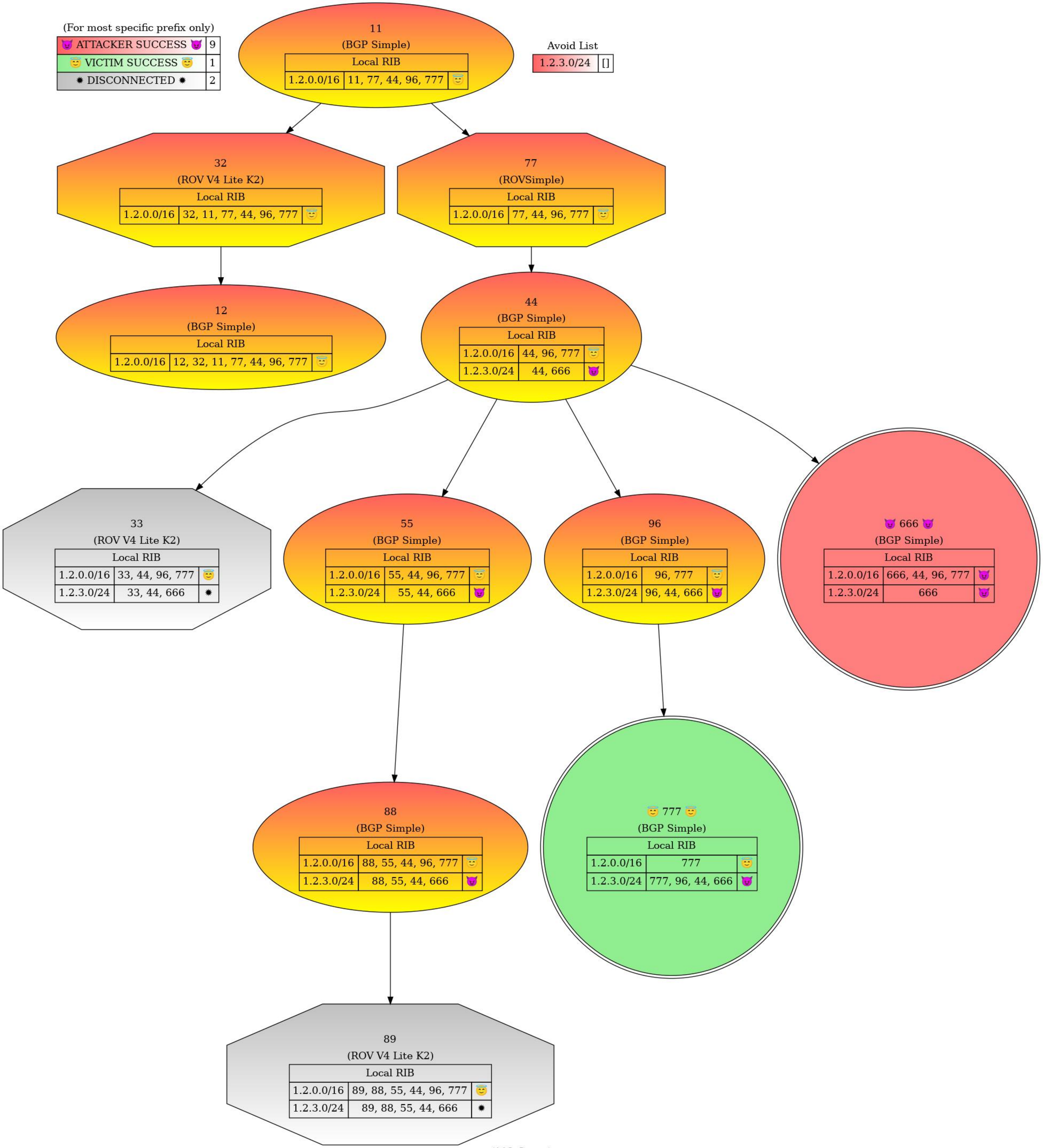

(111 Ground Truth)
Subprefix Hijack with V4 Lite k=1.
Traceback for 1.2.3.0/24




(111 Guess)
Subprefix Hijack with V4 Lite k=1.
Traceback for 1.2.3.0/24




(112 Ground Truth)
Subprefix Hijack with V4 Lite k=2.
Traceback for 1.2.3.0/24




(112 Guess)
Subprefix Hijack with V4 Lite k=2.
Traceback for 1.2.3.0/24

(For most specific prefix only)

| | |
|---|---|
| 😈 ATTACKER SUCCESS 😈 | 5 |
| 😇 VICTIM SUCCESS 😇 | 1 |
| ✹ DISCONNECTED ✹ | 1 |

11
(BGP Simple)

| Local RIB | | |
|---|---|---|
| 1.2.0.0/16 | 11, 77, 44, 777 | 😇 |

32
(ROV++V1 Simple)

| Local RIB | | |
|---|---|---|
| 1.2.0.0/16 | 32, 11, 77, 44, 777 | 😇 |

77
(ROVSimple)

| Local RIB | | |
|---|---|---|
| 1.2.0.0/16 | 77, 44, 777 | 😇 |

44
(BGP Simple)

| Local RIB | | |
|---|---|---|
| 1.2.0.0/16 | 44, 777 | 😇 |
| 1.2.3.0/24 | 44, 666 | 😈 |

33
(ROV++V1 Simple)

| Local RIB | | |
|---|---|---|
| 1.2.0.0/16 | 33, 44, 777 | 😇 |
| 1.2.3.0/24 | 33, 44, 666 | ✹ |

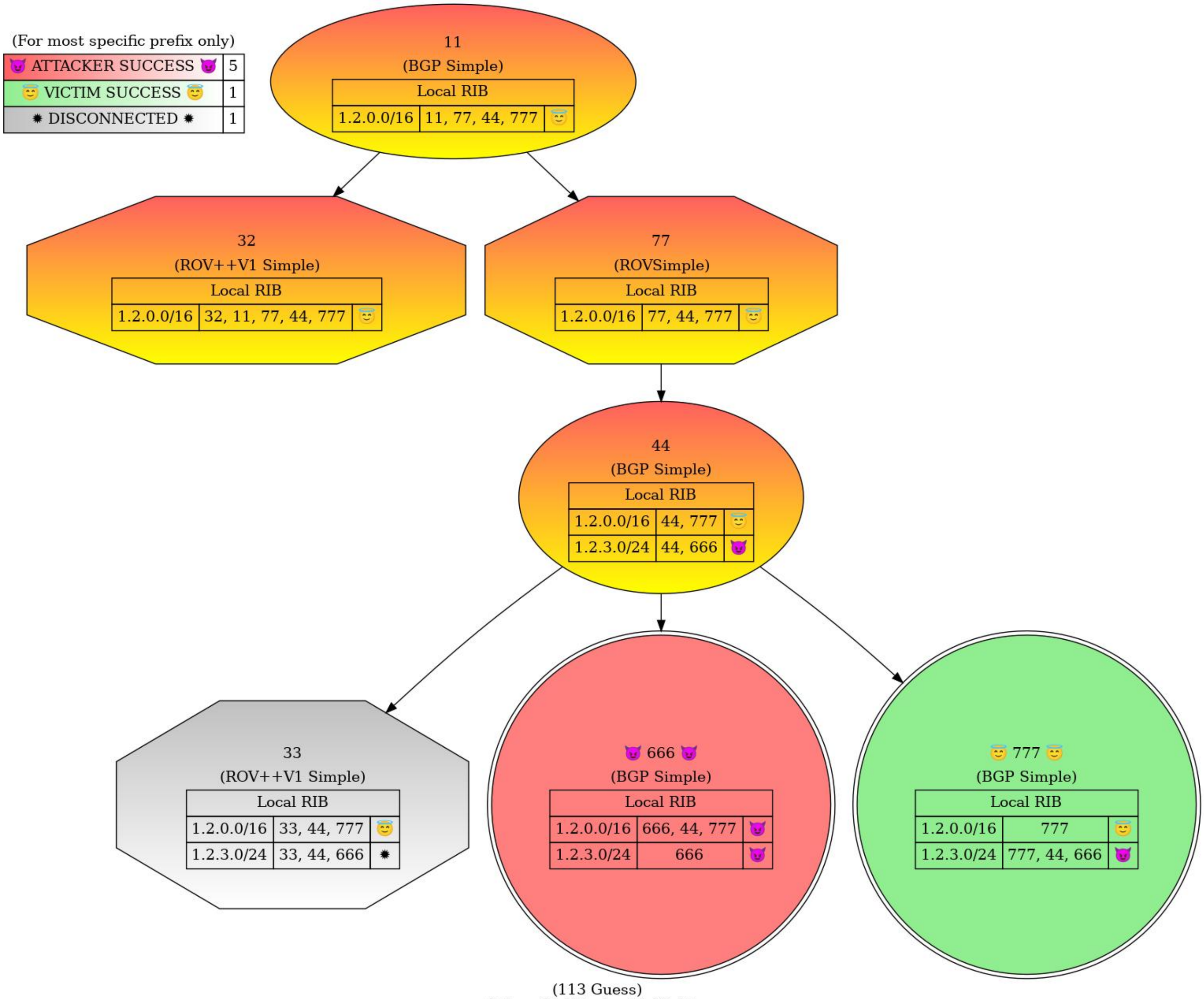
😈 666 😈
(BGP Simple)

| Local RIB | | |
|---|---|---|
| 1.2.0.0/16 | 666, 44, 777 | 😈 |
| 1.2.3.0/24 | 666 | 😈 |

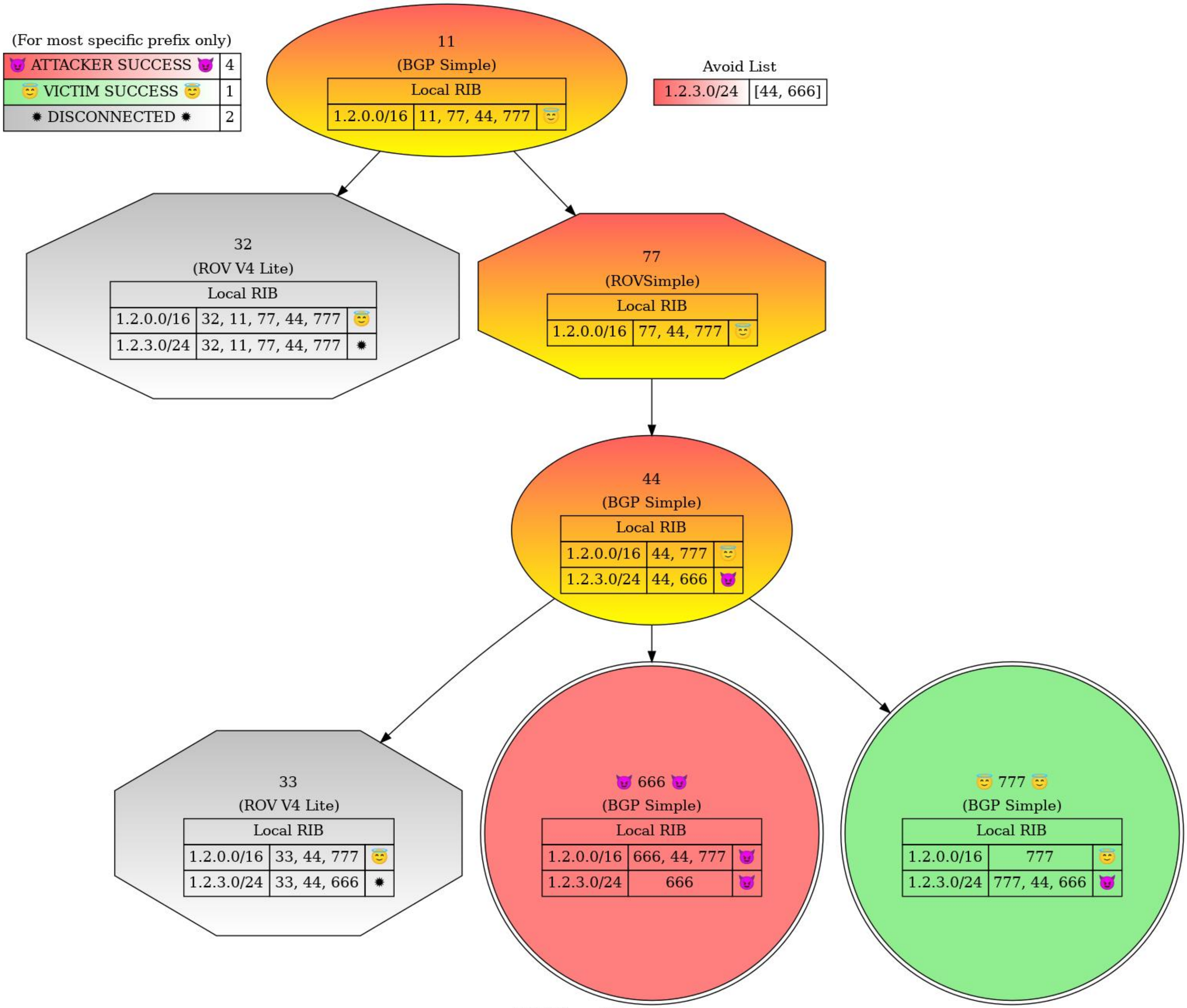
😇 777 😇
(BGP Simple)

| Local RIB | | |
|---|---|---|
| 1.2.0.0/16 | 777 | 😇 |
| 1.2.3.0/24 | 777, 44, 666 | 😈 |

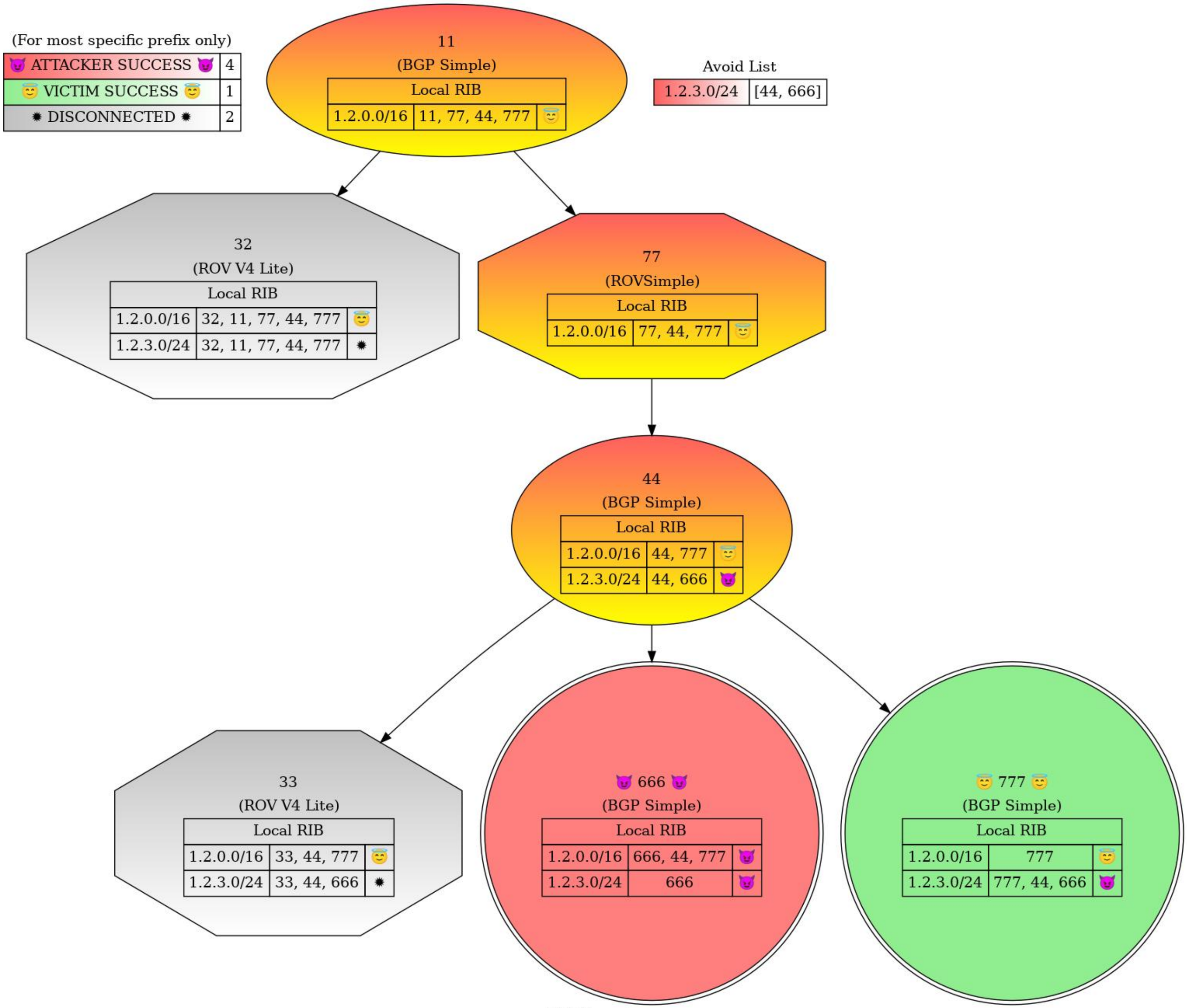
(113 Ground Truth)
Subprefix Hijack with V1 Lite
Traceback for 1.2.3.0/24



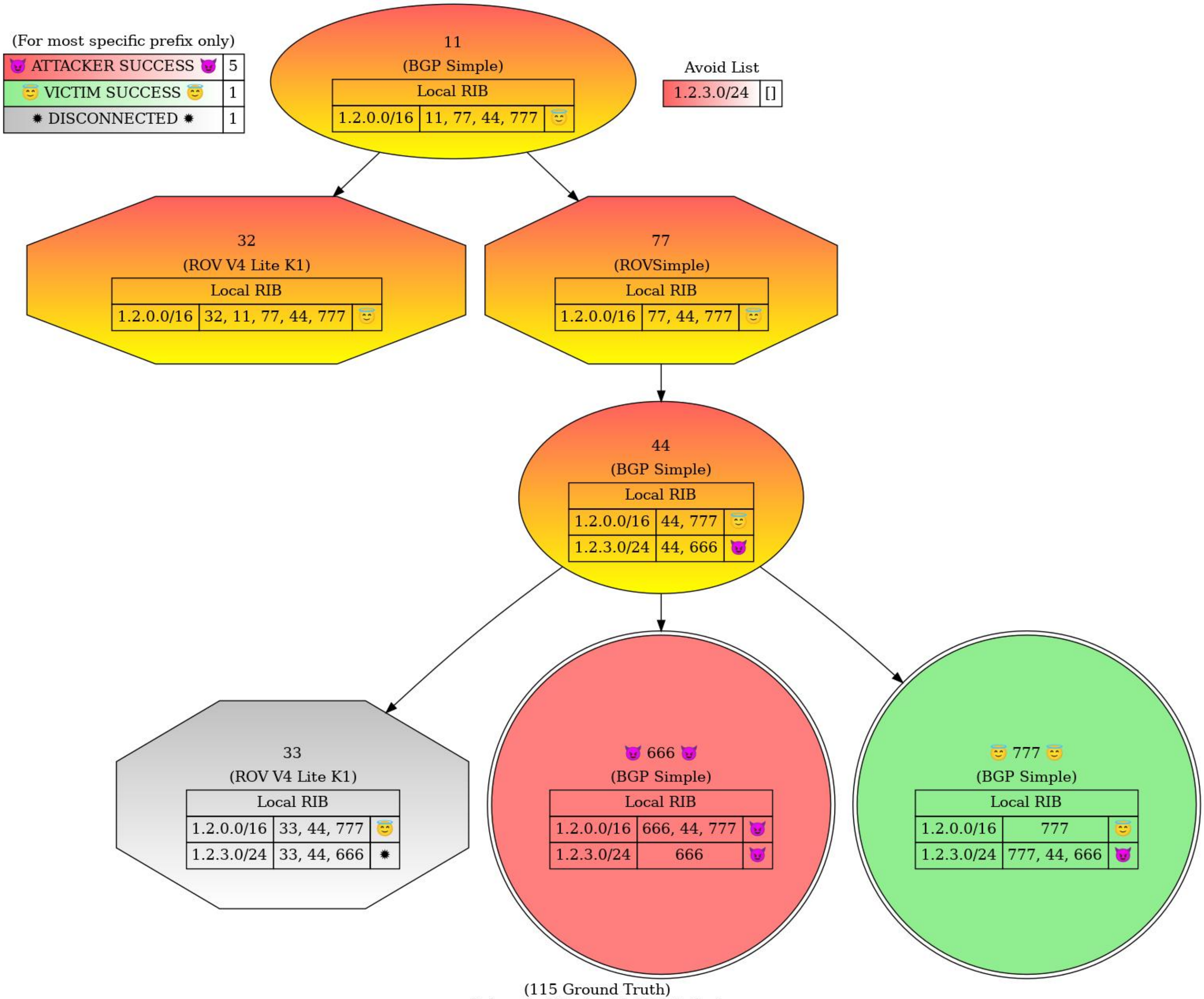

(113 Guess)
Subprefix Hijack with V1 Lite
Traceback for 1.2.3.0/24



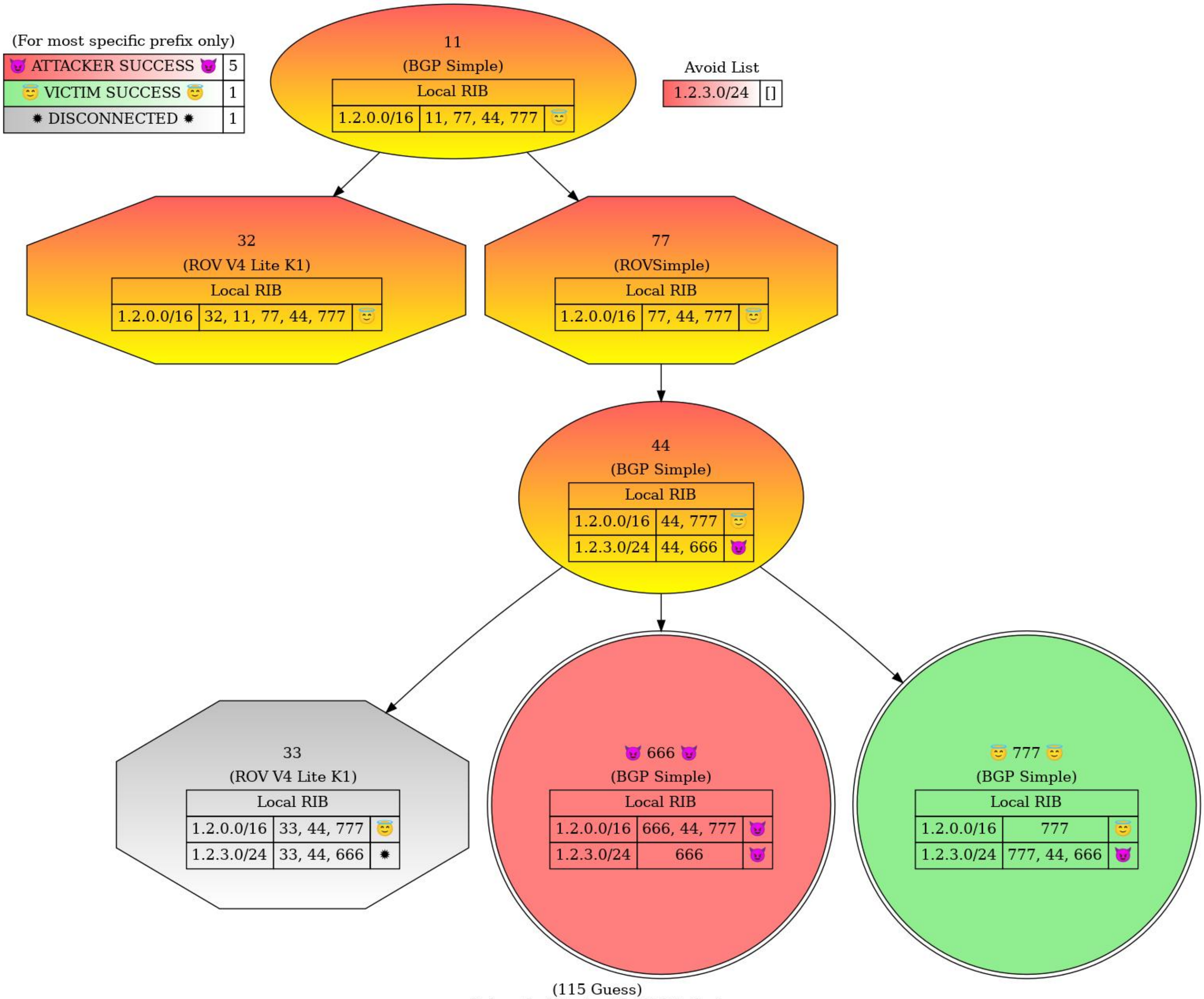

(114 Ground Truth)
Subprefix Hijack with V4 Lite
Traceback for 1.2.3.0/24



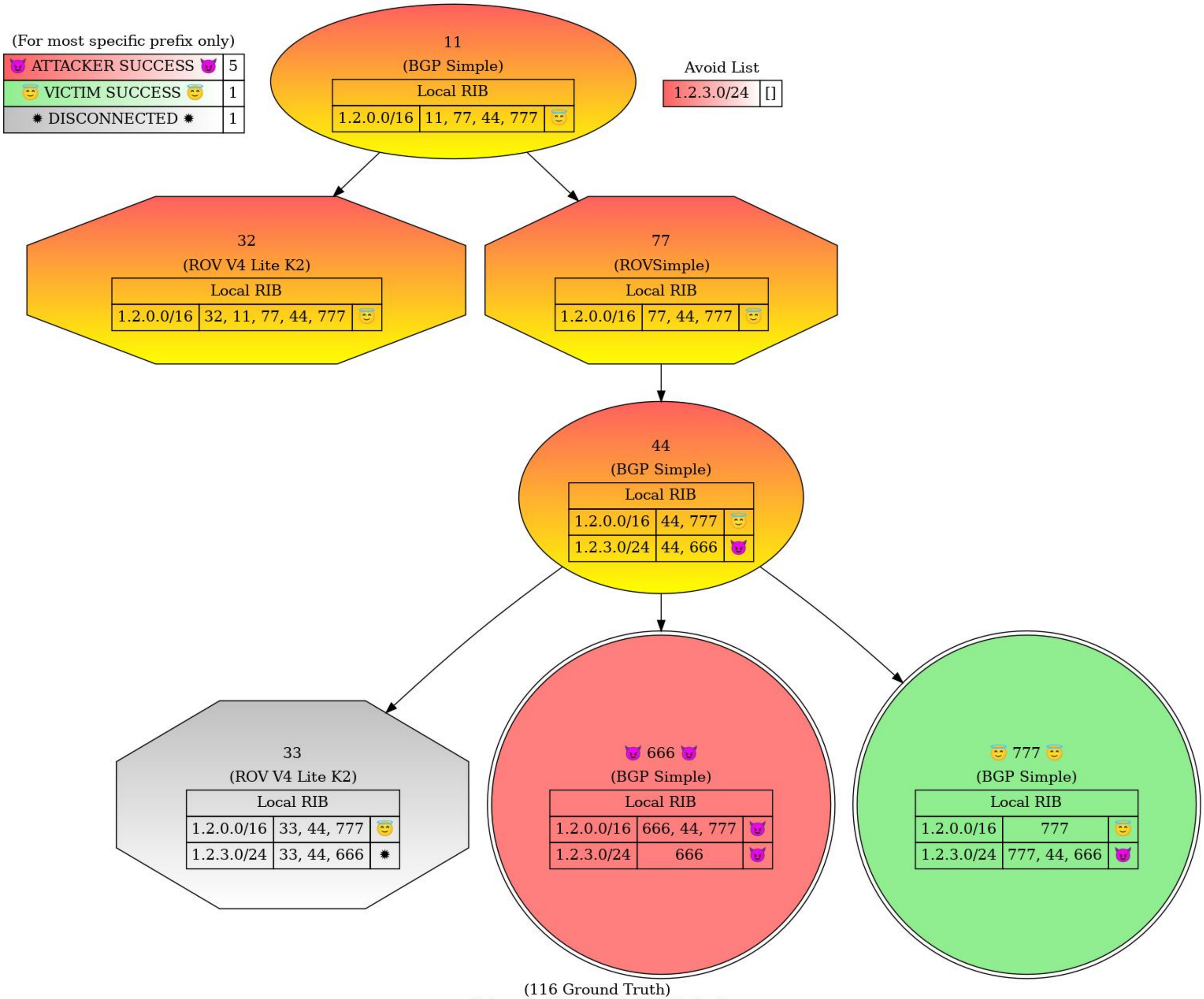

(114 Guess)
Subprefix Hijack with V4 Lite
Traceback for 1.2.3.0/24



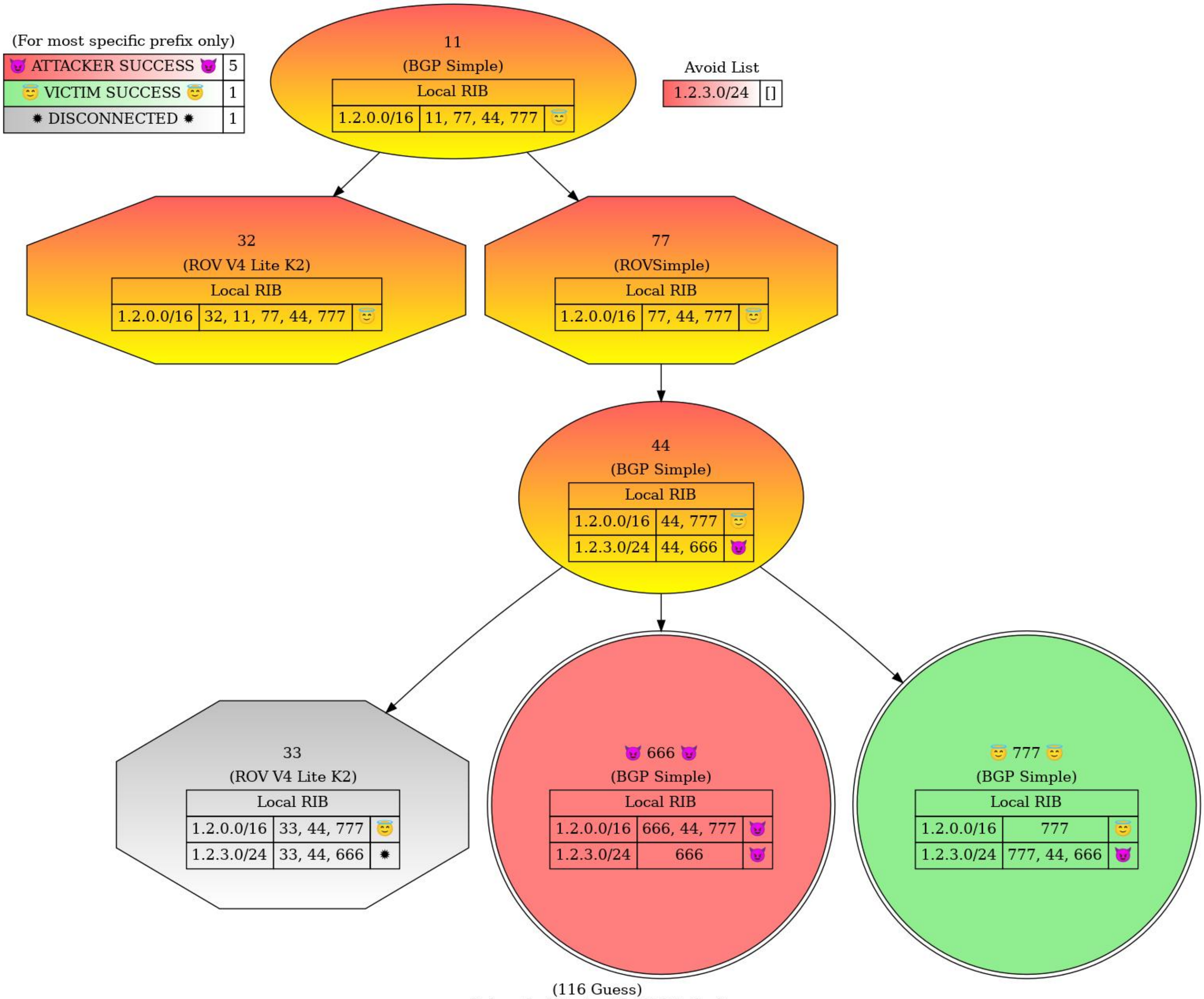

(115 Ground Truth)
Subprefix Hijack with V4 Lite k=1
Traceback for 1.2.3.0/24



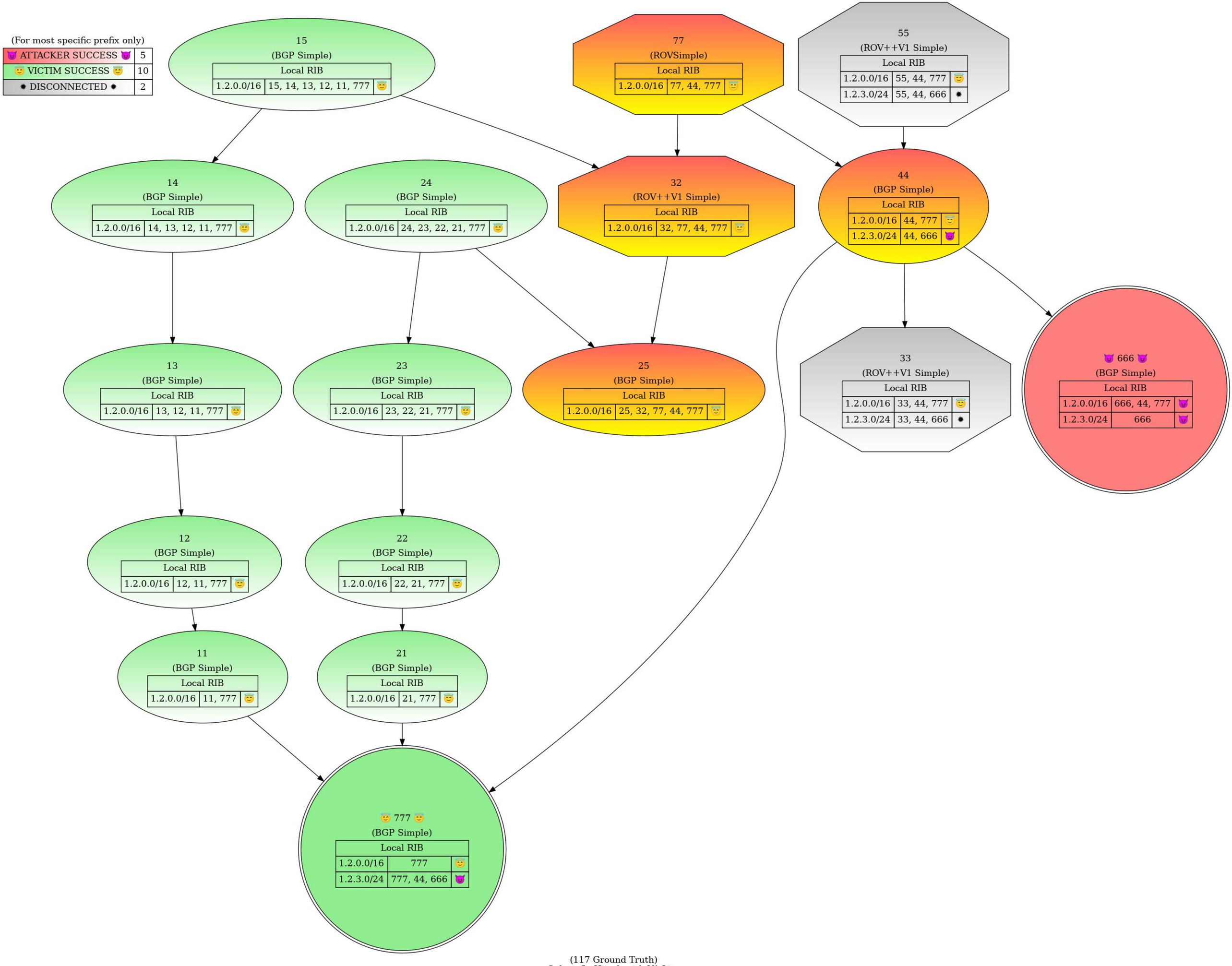

(115 Guess)
Subprefix Hijack with V4 Lite k=1
Traceback for 1.2.3.0/24



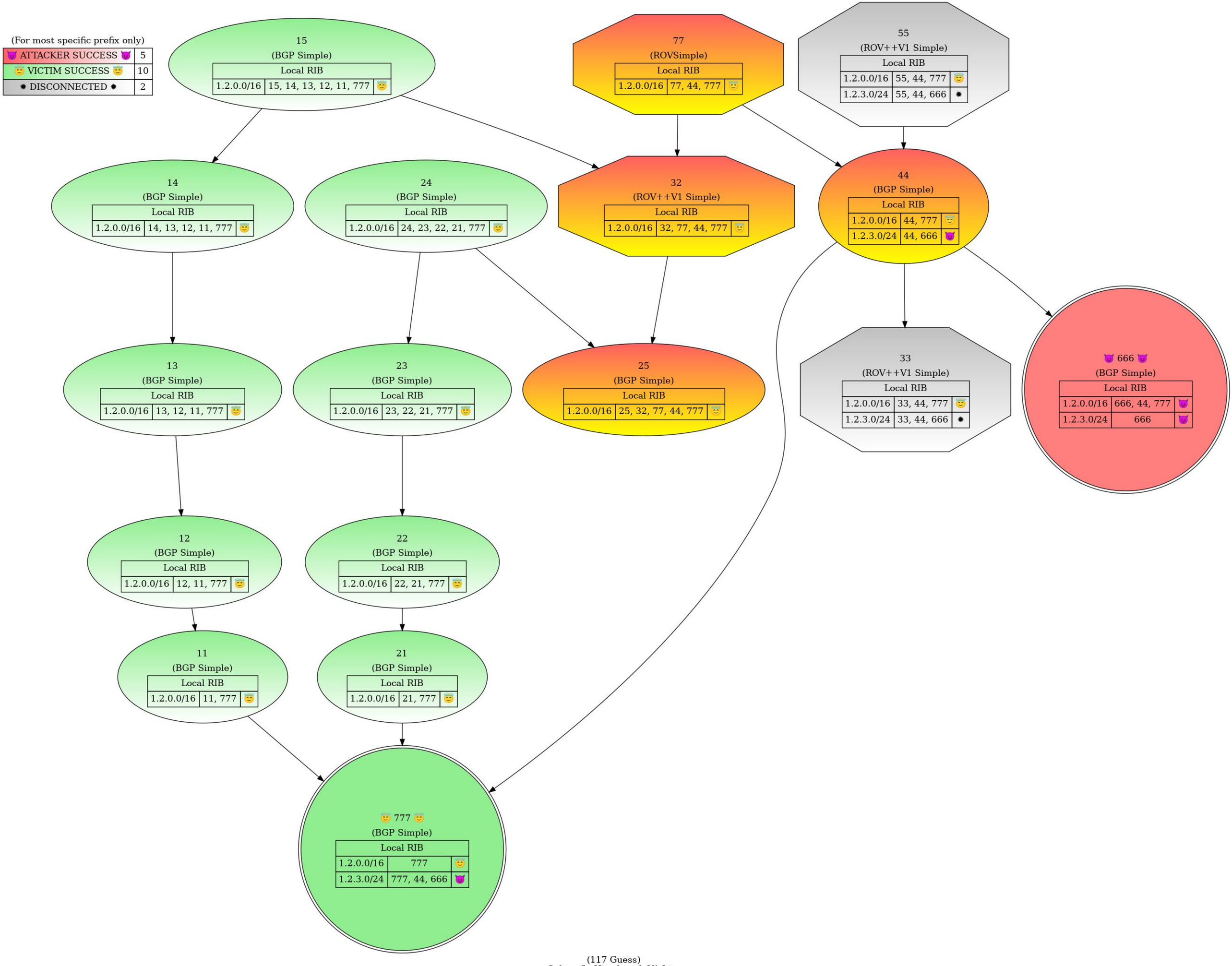

(116 Ground Truth)
Subprefix Hijack with V4 Lite k=2
Traceback for 1.2.3.0/24



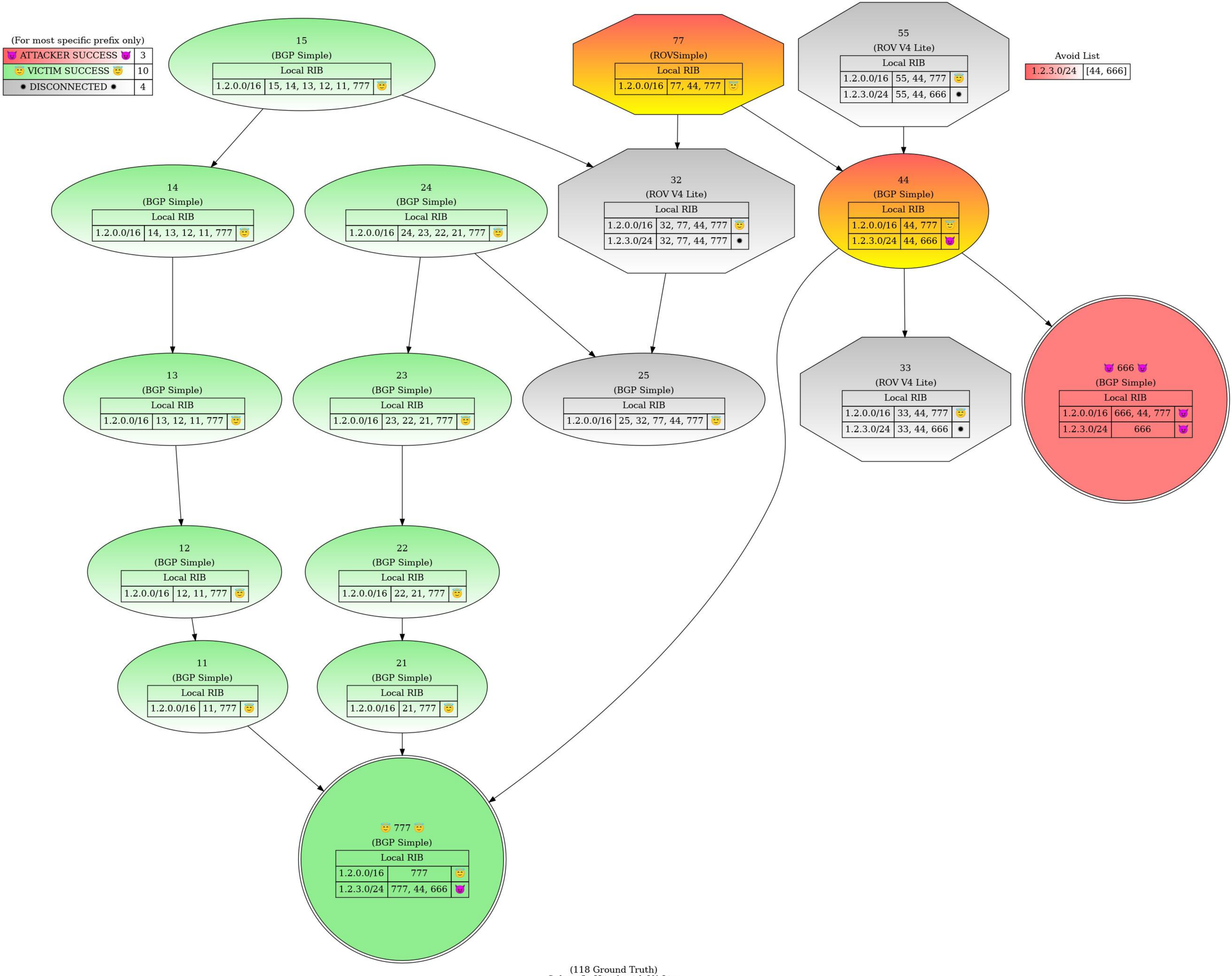

(116 Guess)
Subprefix Hijack with V4 Lite k=2
Traceback for 1.2.3.0/24



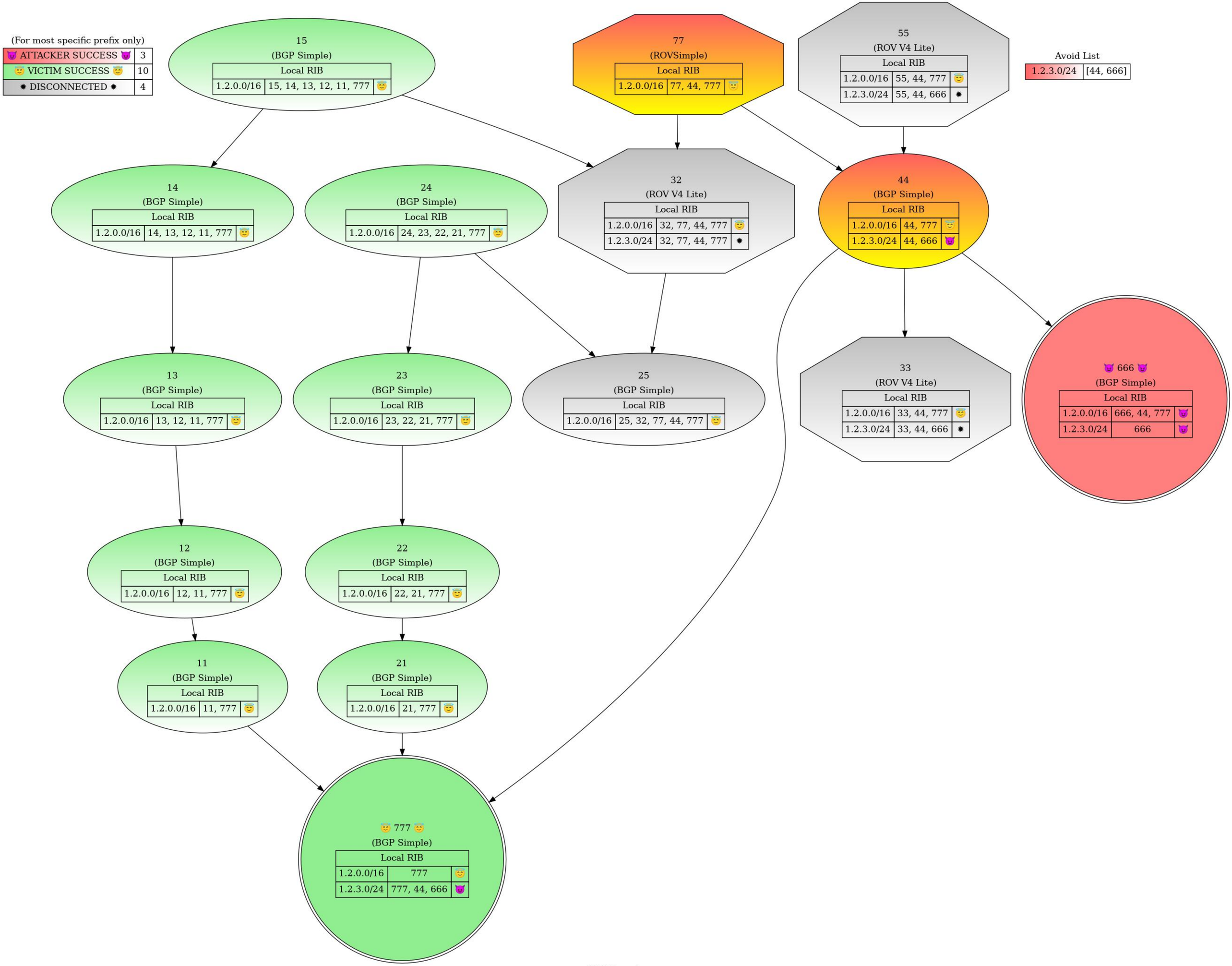

(117 Ground Truth)
Subprefix Hijack with V1 Lite
Traceback for 1.2.3.0/24



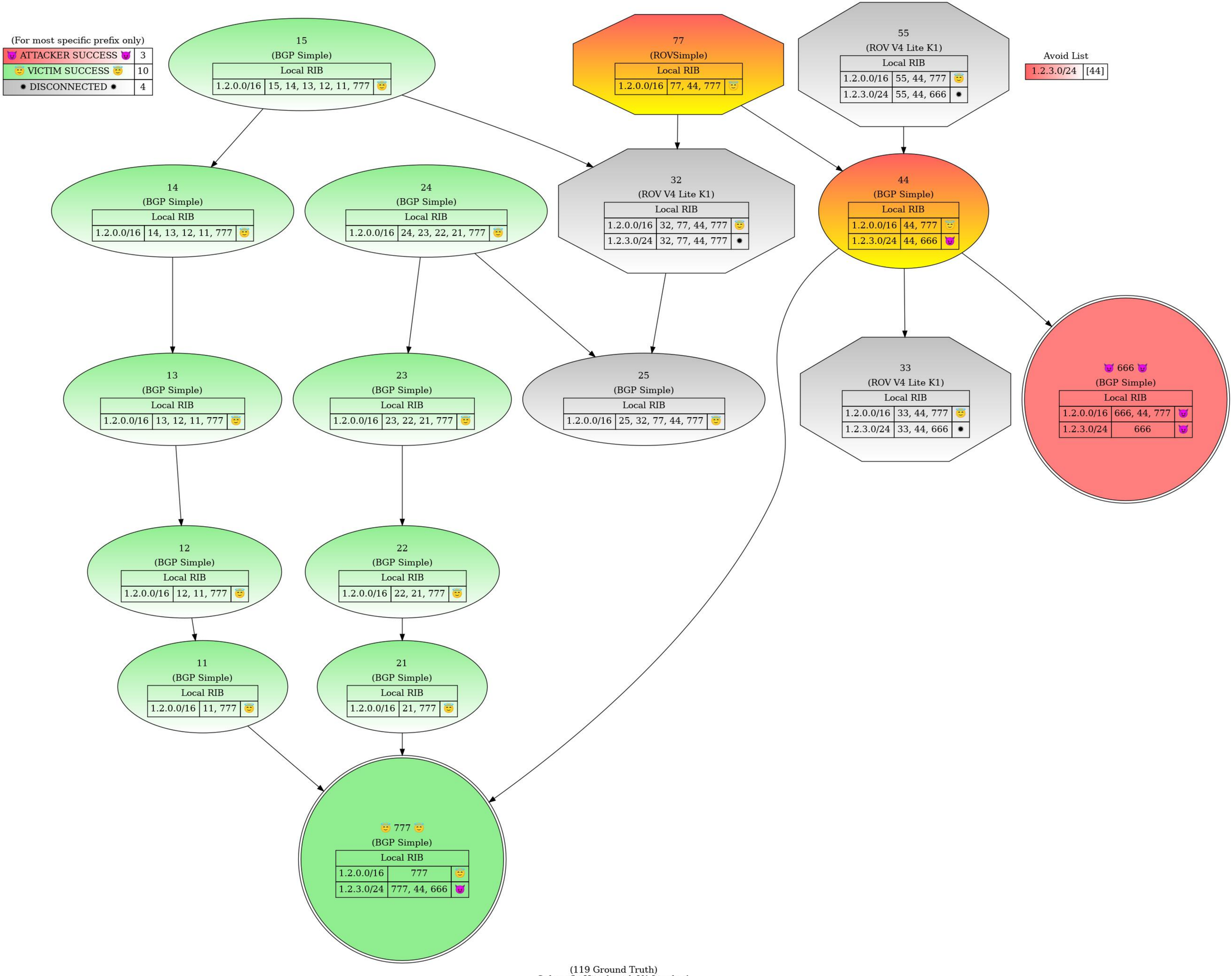

(117 Guess)
Subprefix Hijack with V1 Lite
Traceback for 1.2.3.0/24



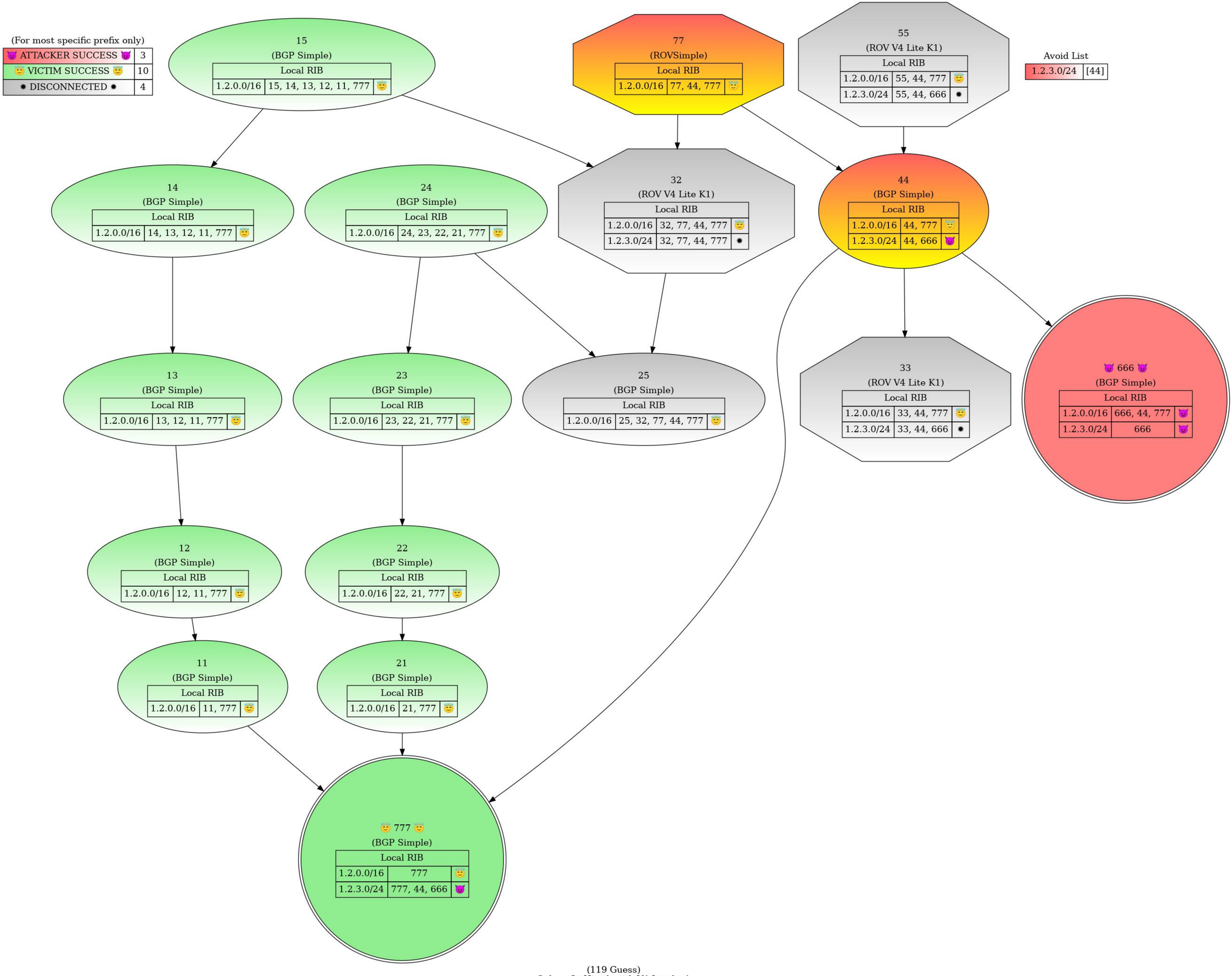

(118 Ground Truth)
Subprefix Hijack with V4 Lite
Traceback for 1.2.3.0/24



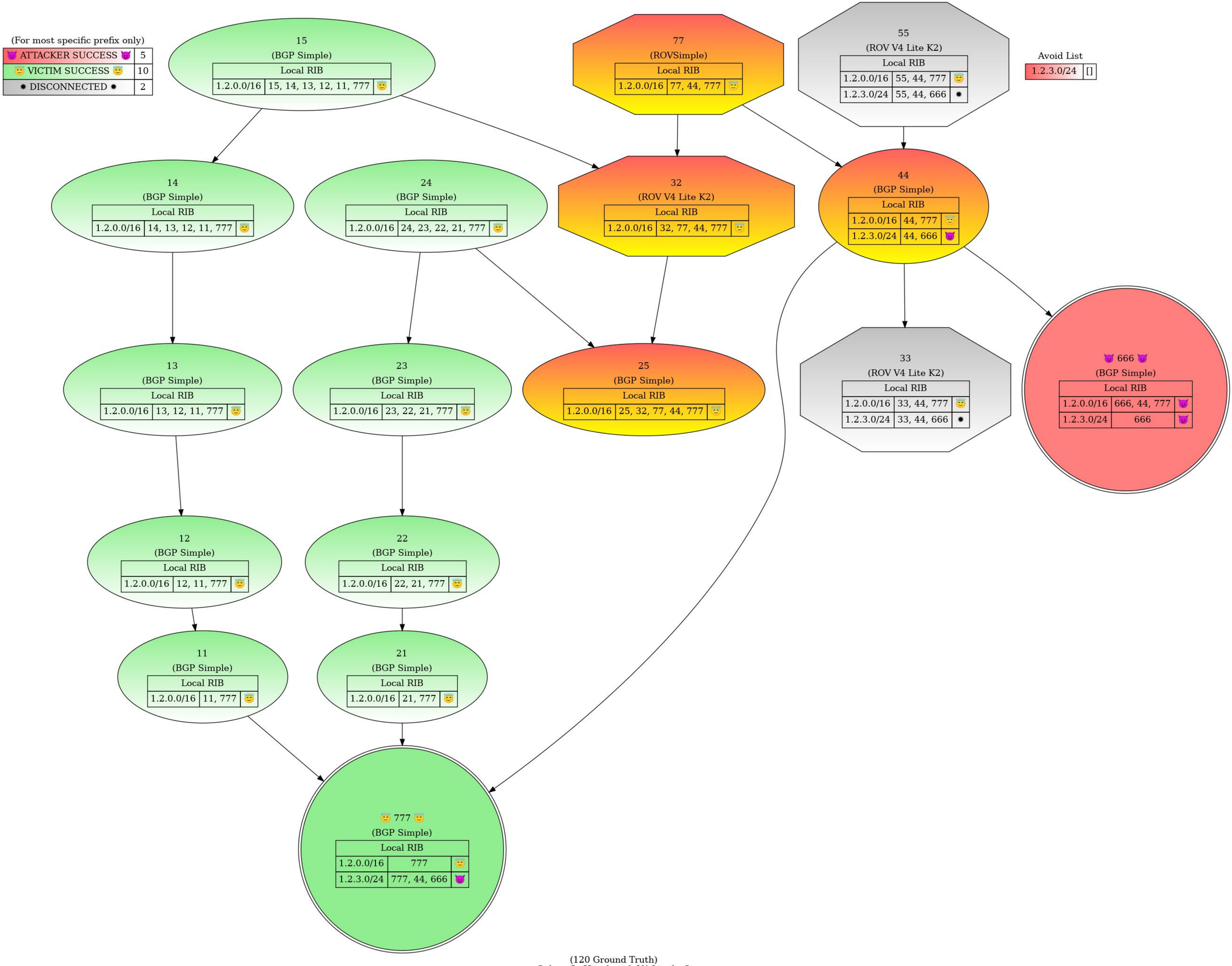

(118 Guess)
Subprefix Hijack with V4 Lite
Traceback for 1.2.3.0/24



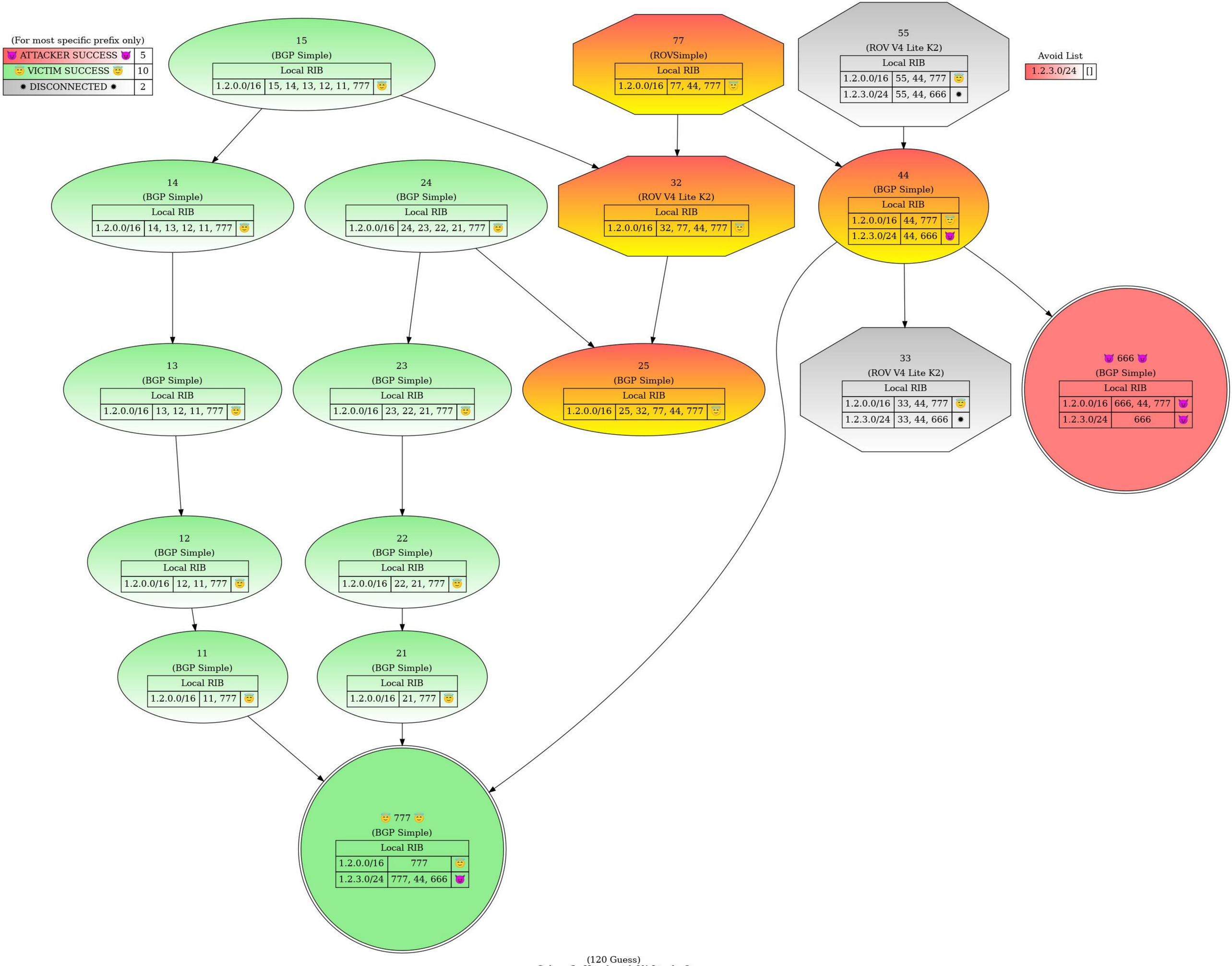

(119 Ground Truth)
Subprefix Hijack with V4 Lite k=1
Traceback for 1.2.3.0/24



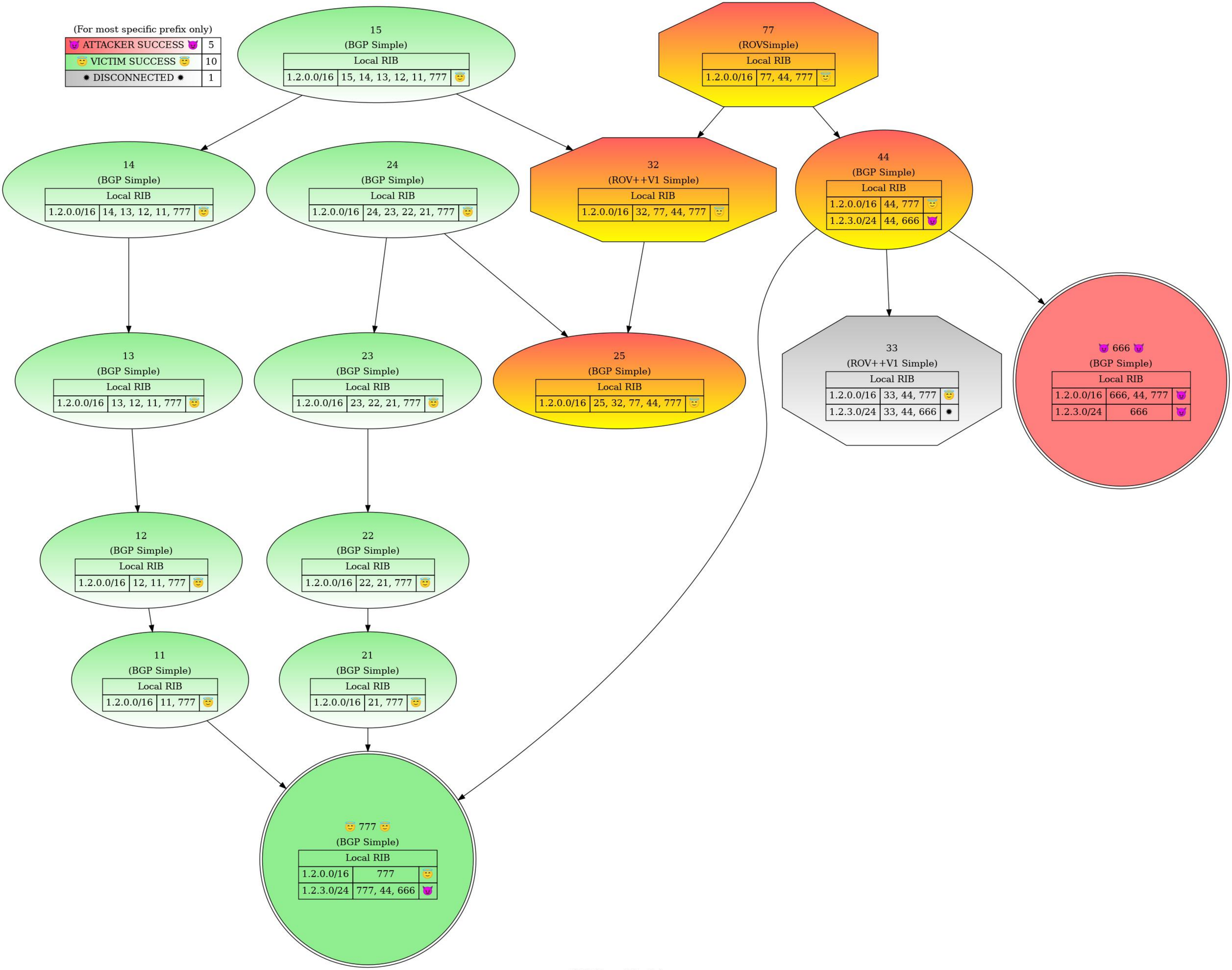

(119 Guess)
Subprefix Hijack with V4 Lite k=1
Traceback for 1.2.3.0/24



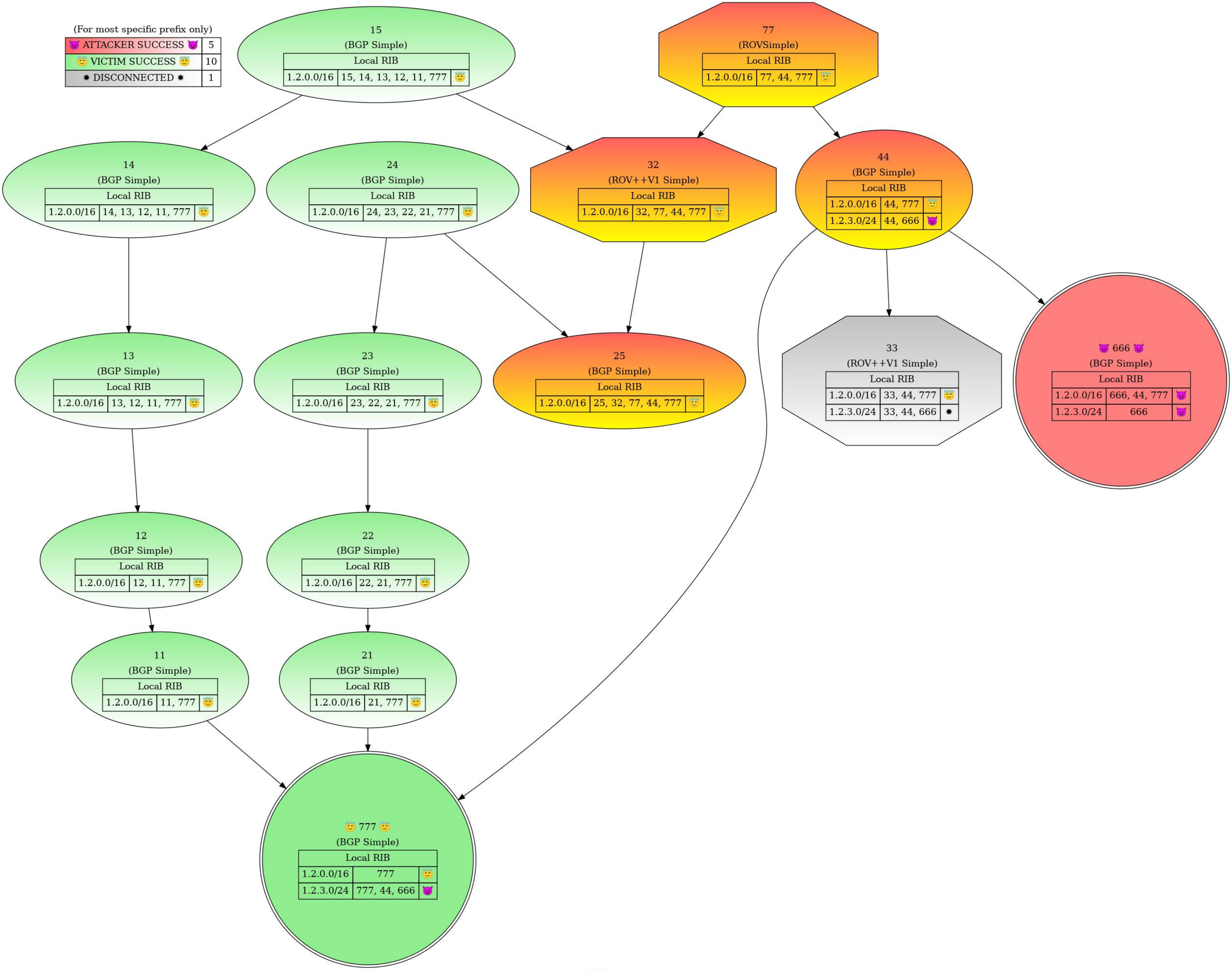

(120 Ground Truth)
Subprefix Hijack with V4 Lite k=2
Traceback for 1.2.3.0/24



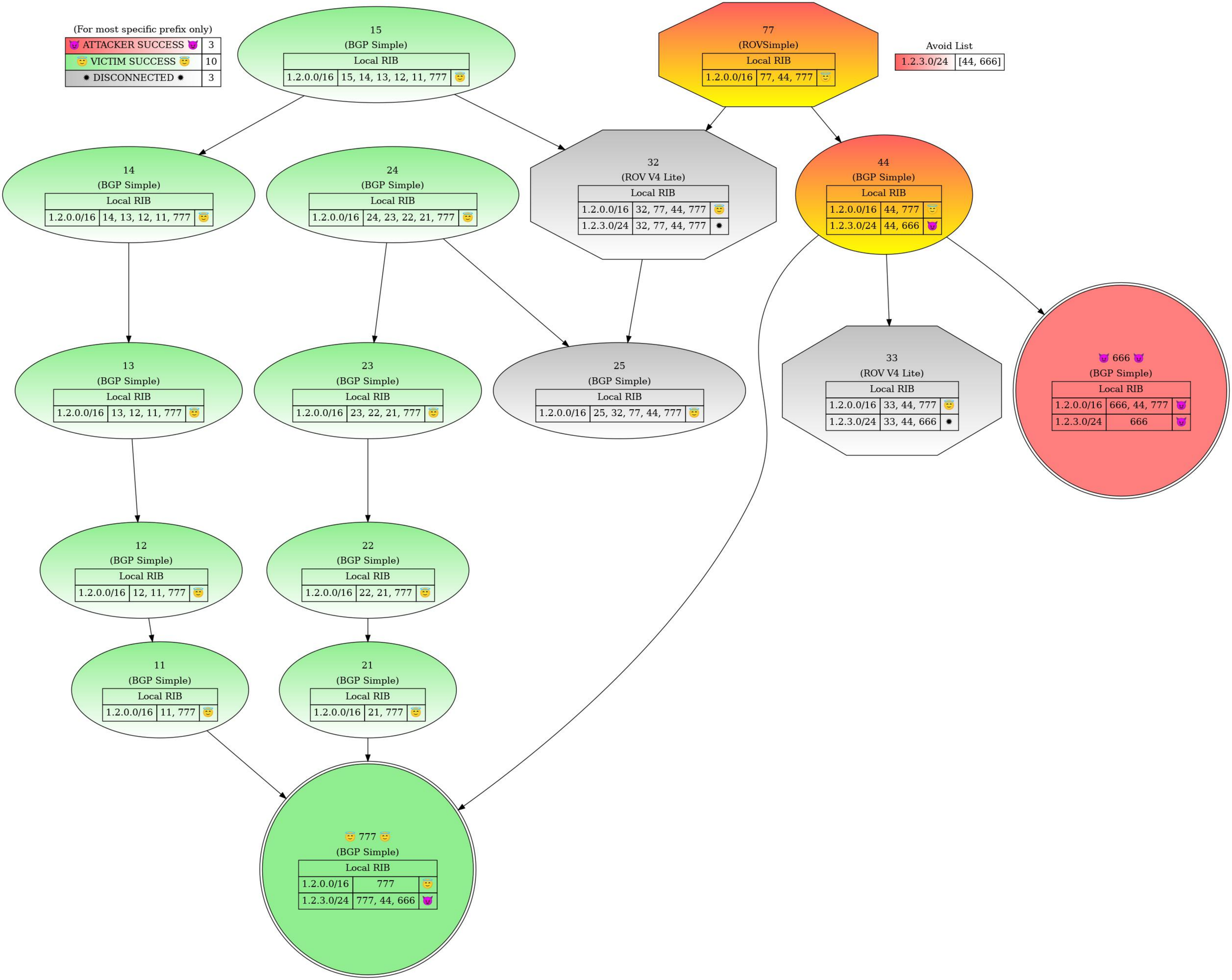

(120 Guess)
Subprefix Hijack with V4 Lite k=2
Traceback for 1.2.3.0/24



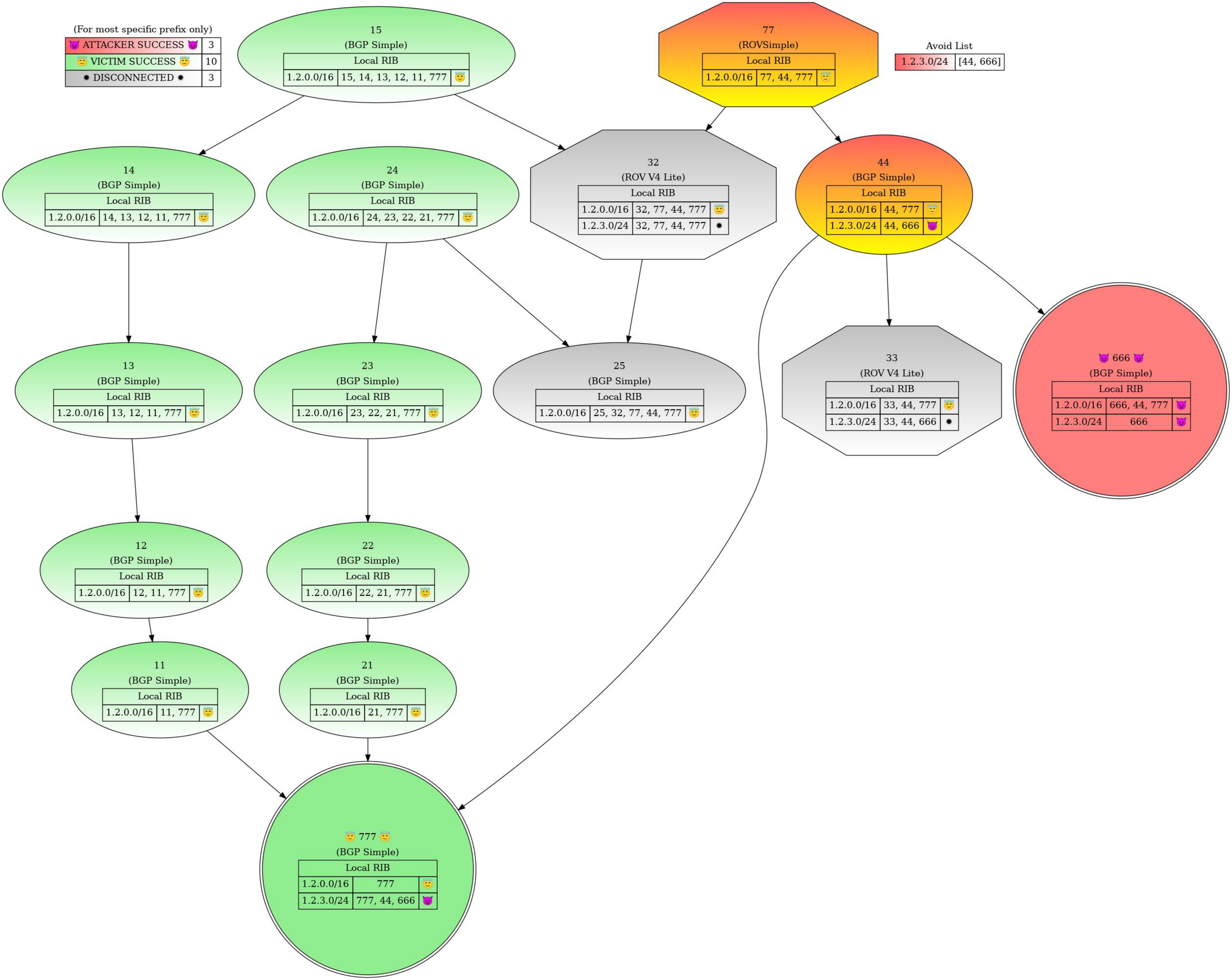

(121 Ground Truth)
Subprefix Hijack with V1 Lite
Traceback for 1.2.3.0/24



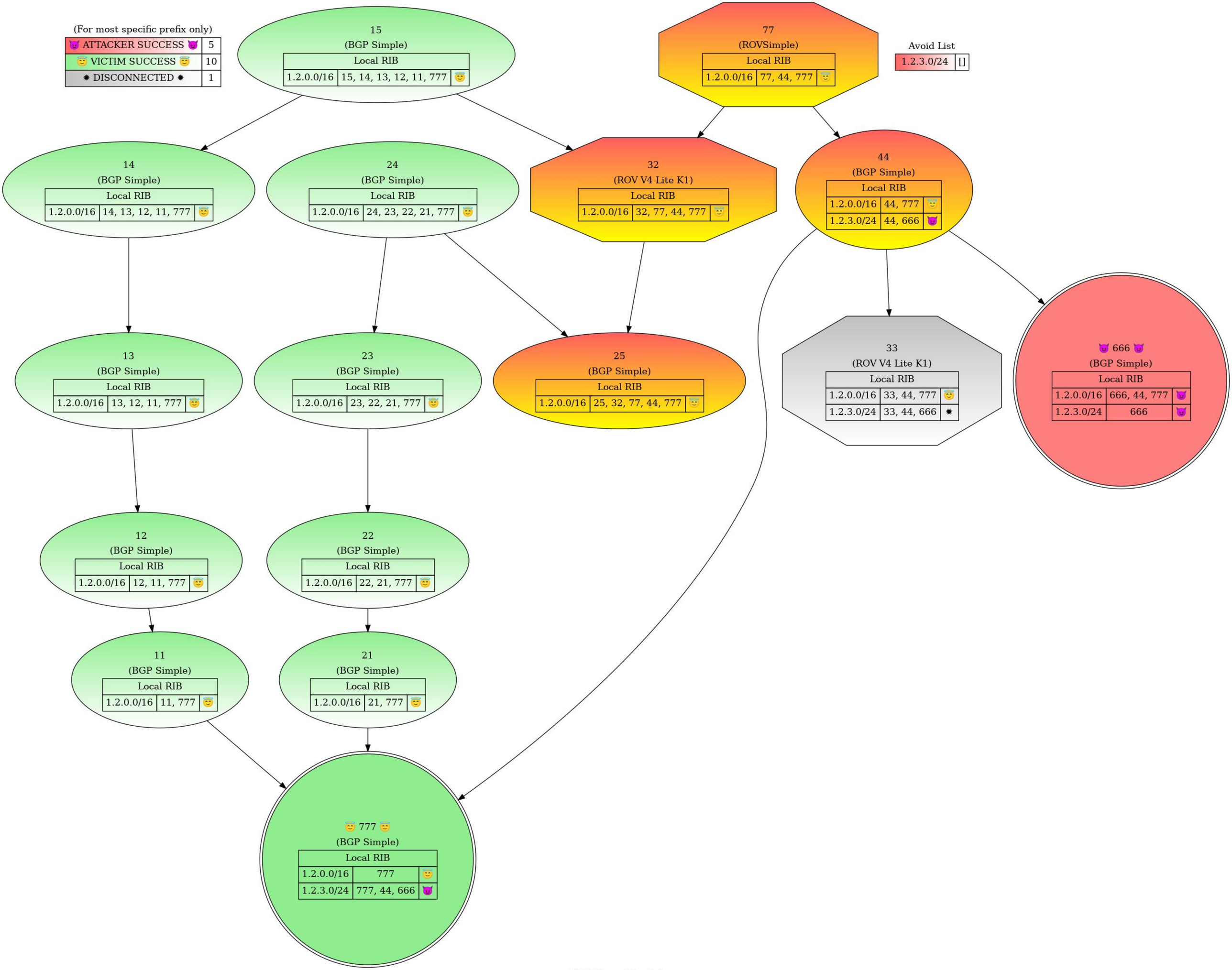

(121 Guess)
Subprefix Hijack with V1 Lite
Traceback for 1.2.3.0/24



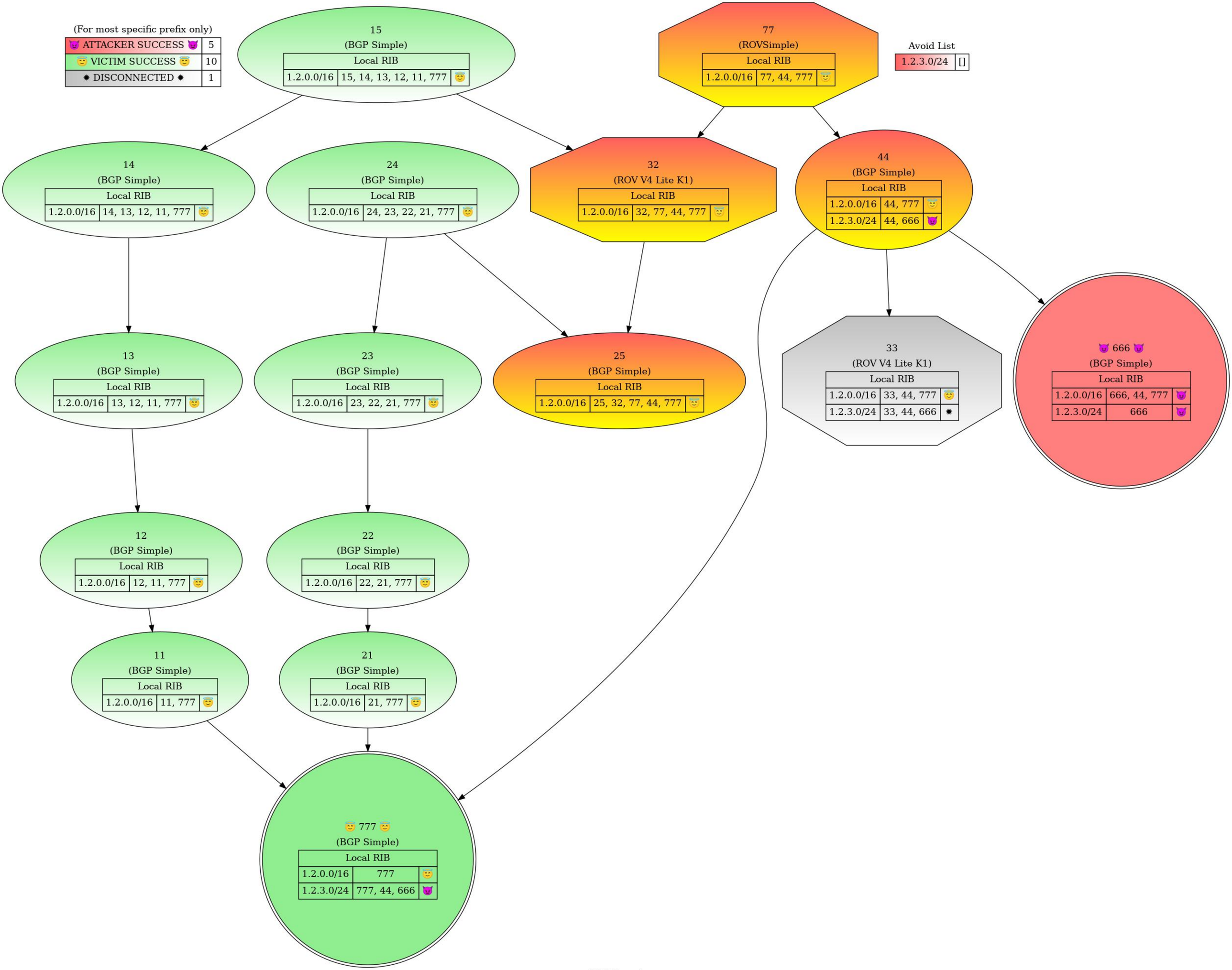

(122 Ground Truth)
Subprefix Hijack with V4 Lite
Traceback for 1.2.3.0/24



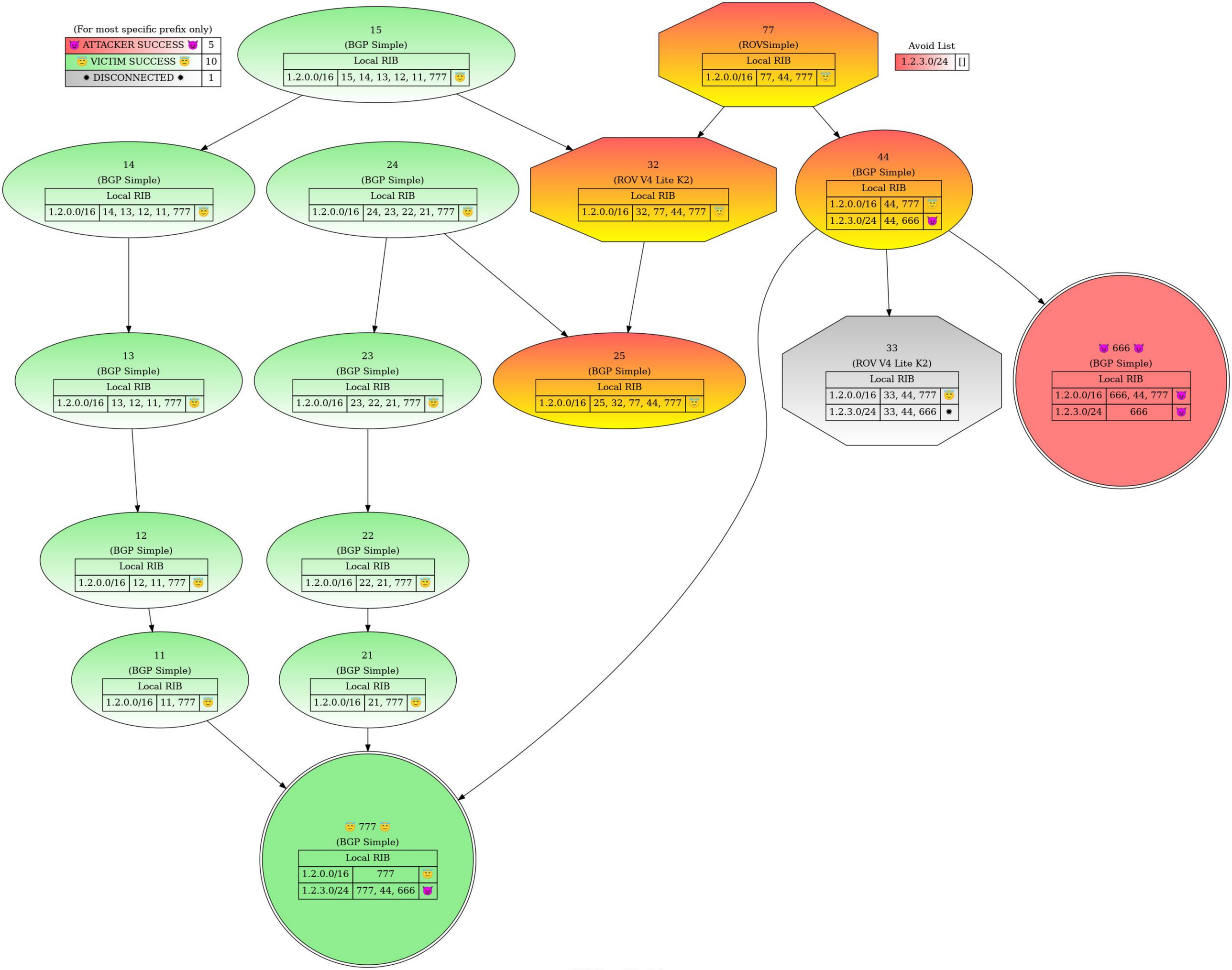

(122 Guess)
Subprefix Hijack with V4 Lite
Traceback for 1.2.3.0/24



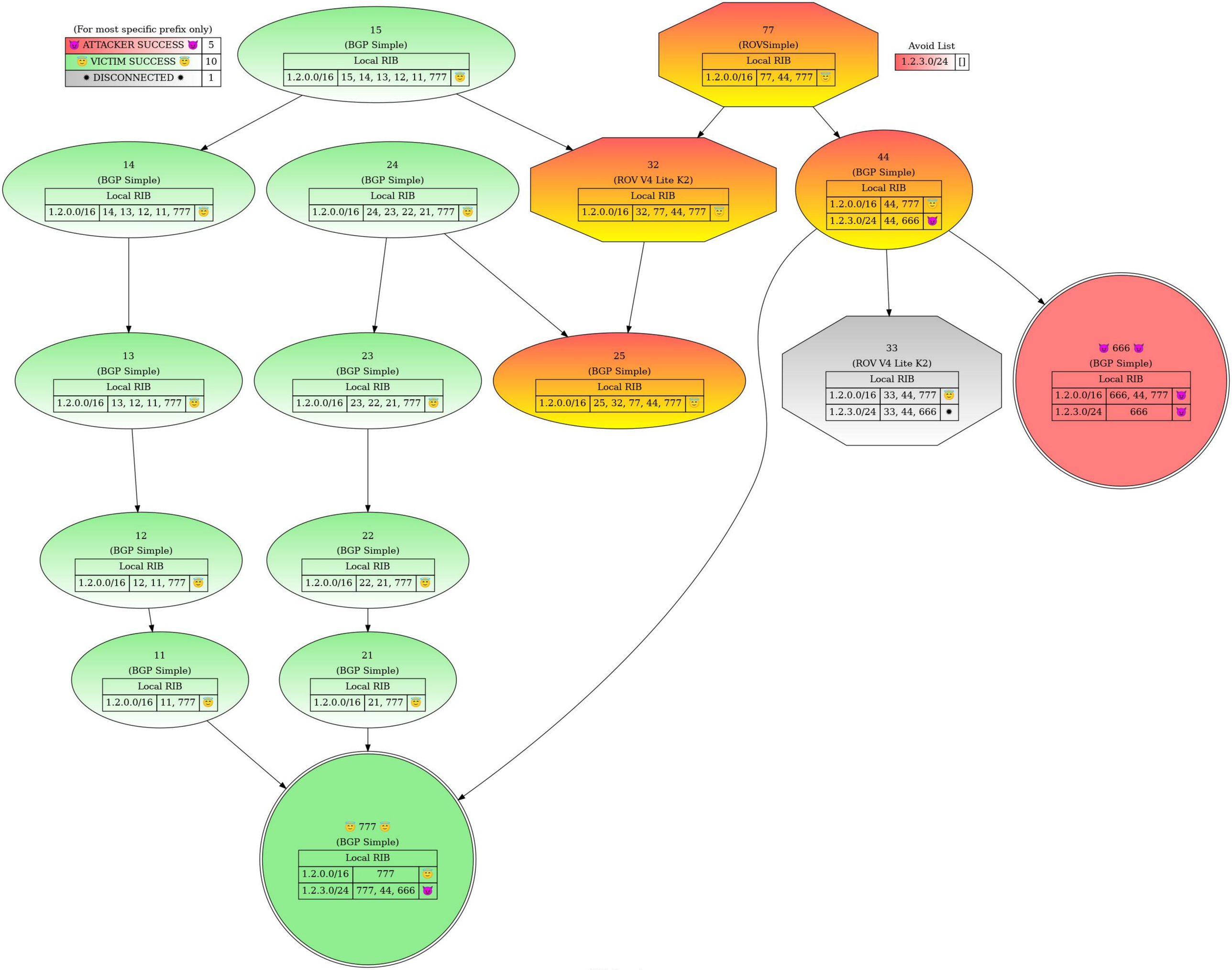

(123 Ground Truth)
Subprefix Hijack with V4 Lite k=1
Traceback for 1.2.3.0/24



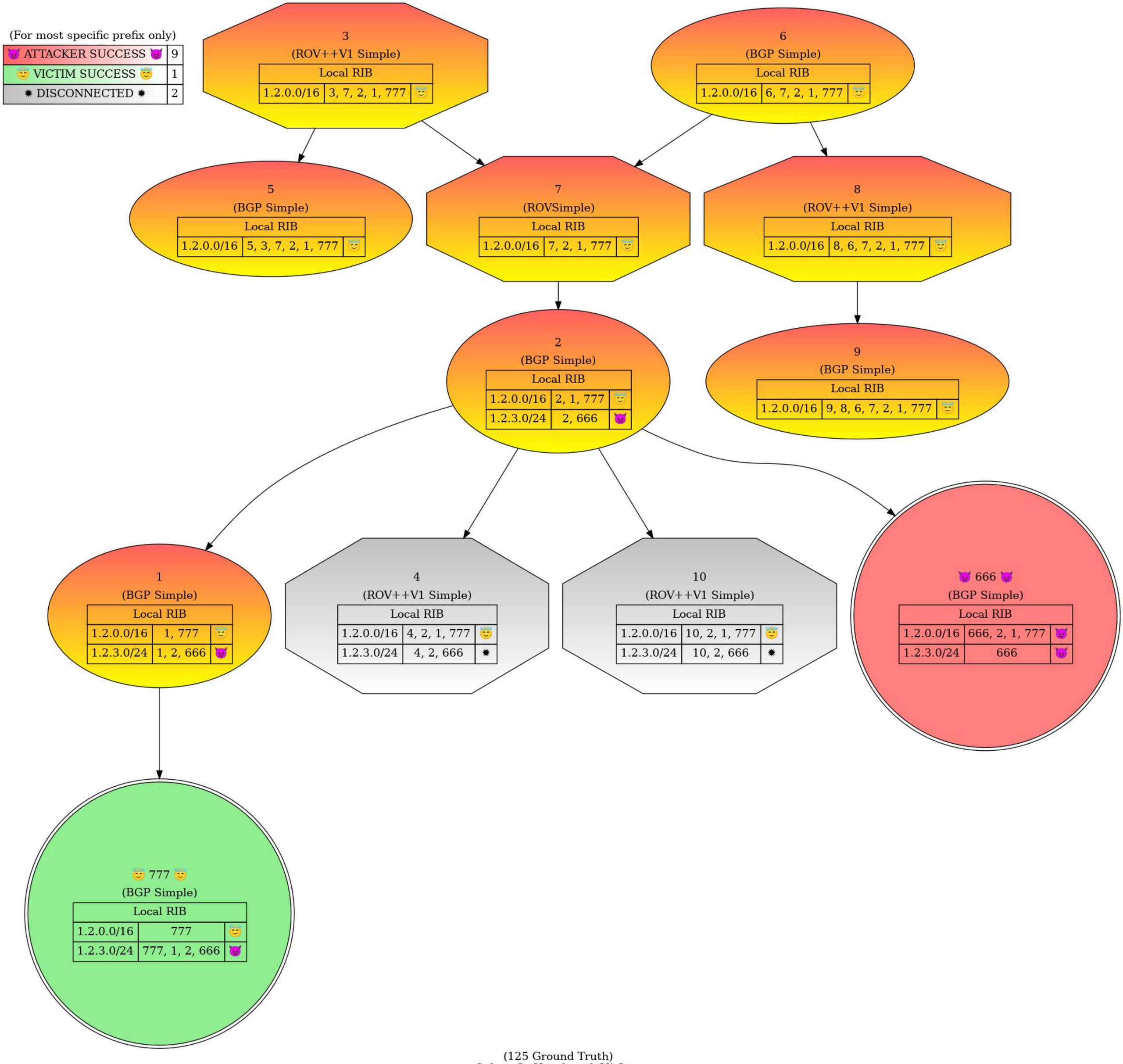

(123 Guess)
Subprefix Hijack with V4 Lite k=1
Traceback for 1.2.3.0/24



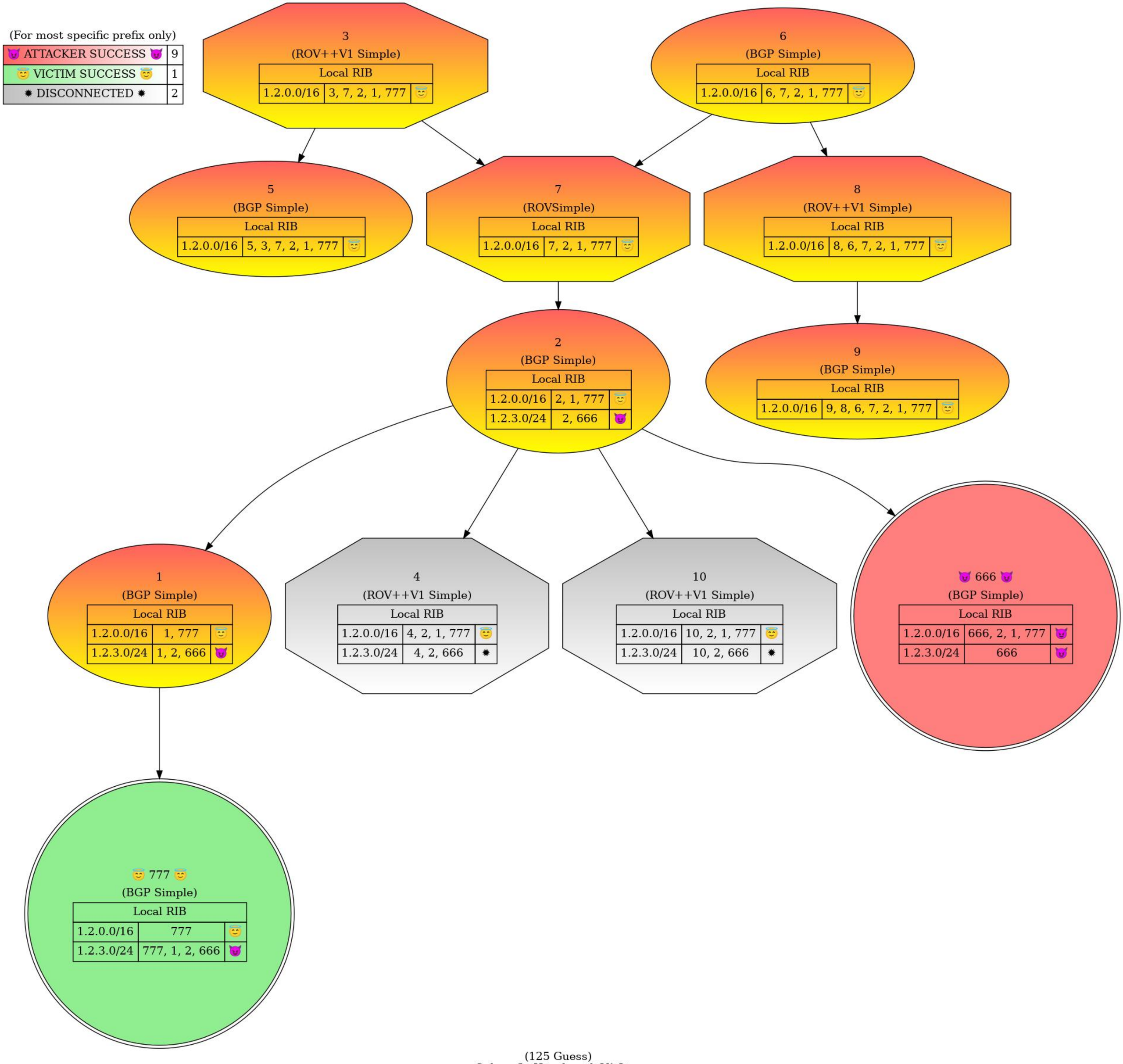

(124 Ground Truth)
Subprefix Hijack with V4 Lite k=2
Traceback for 1.2.3.0/24



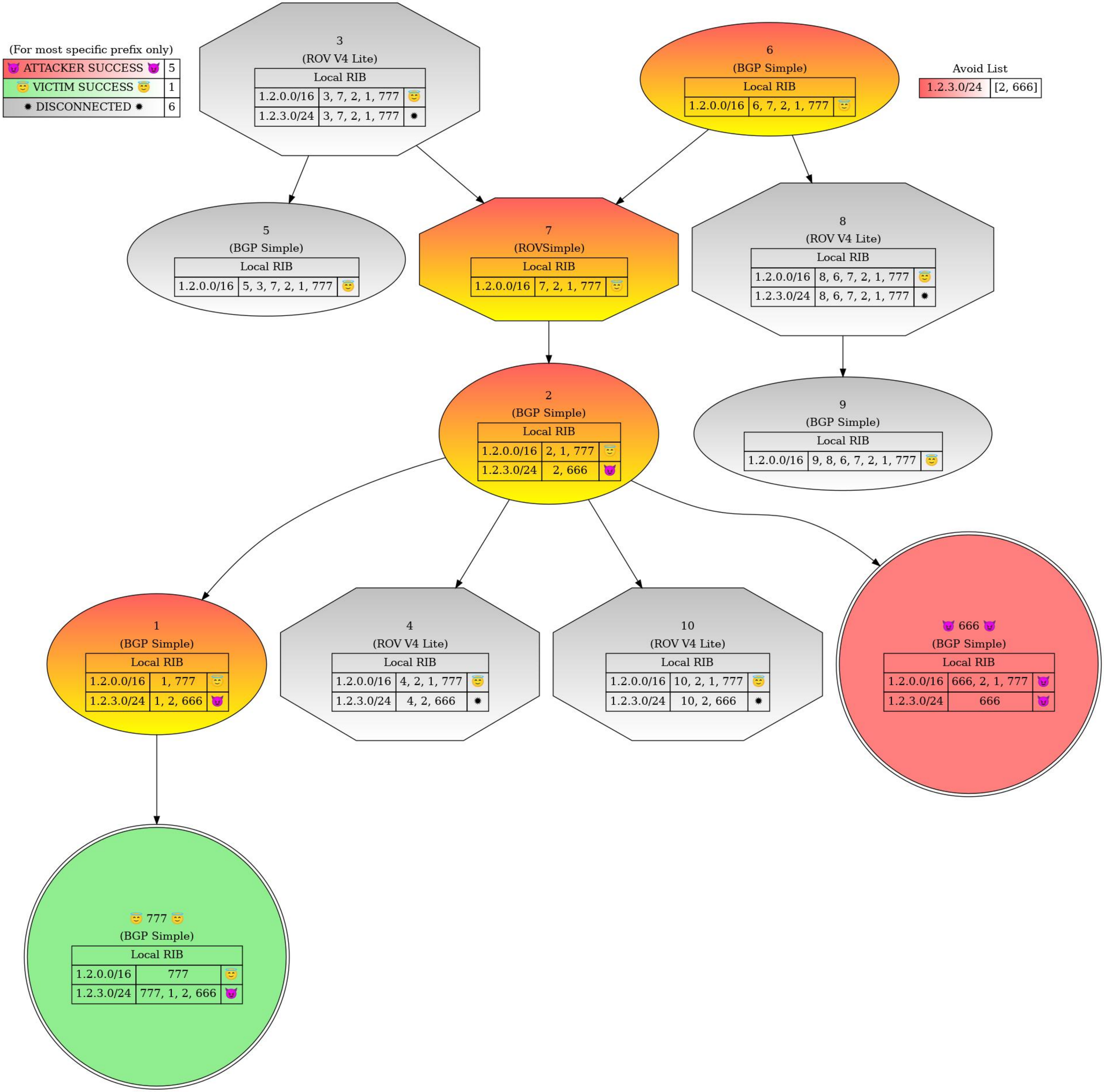

(124 Guess)
Subprefix Hijack with V4 Lite k=2
Traceback for 1.2.3.0/24



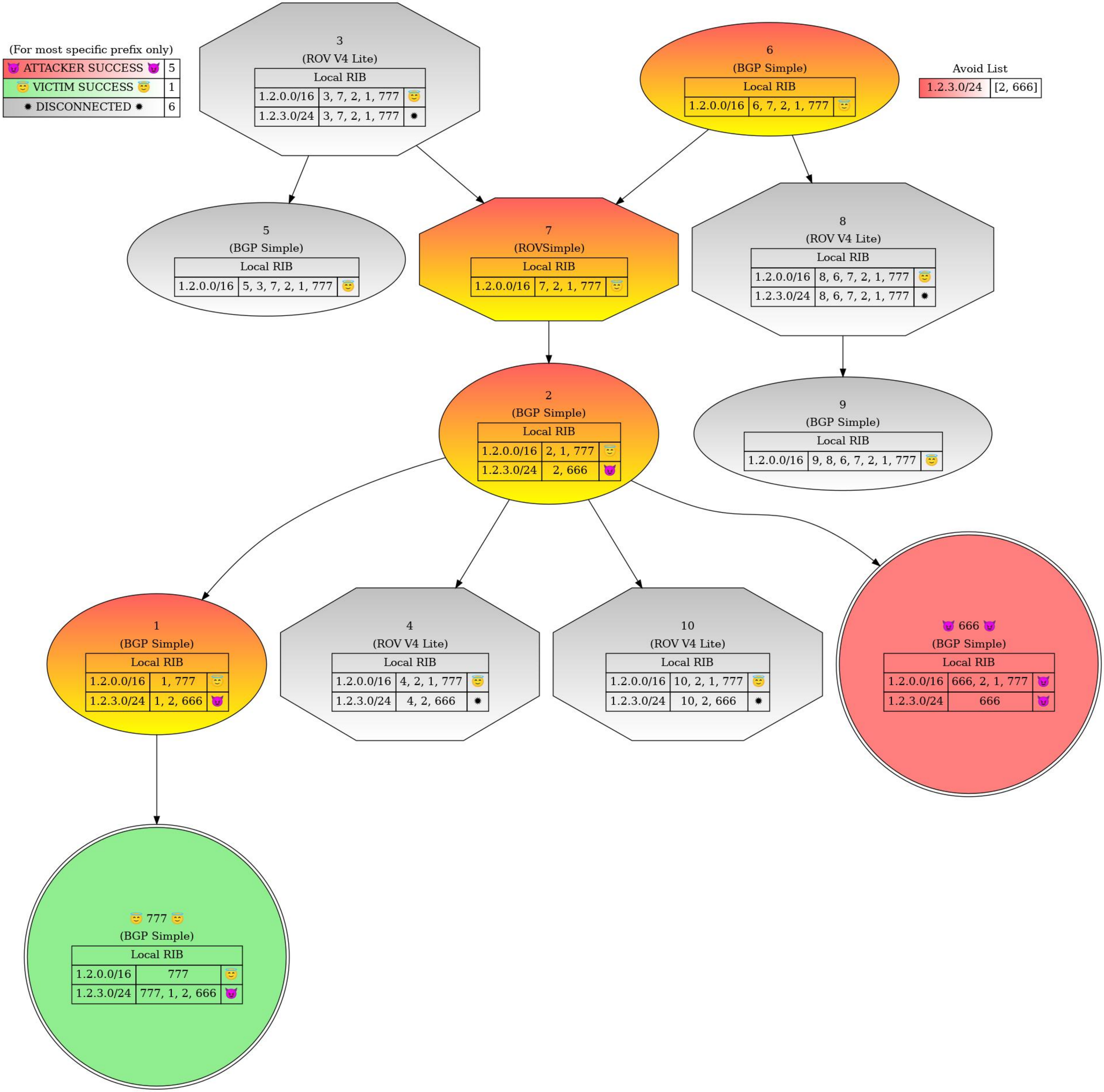

(125 Ground Truth)
Subprefix Hijack with V1 Lite
Traceback for 1.2.3.0/24



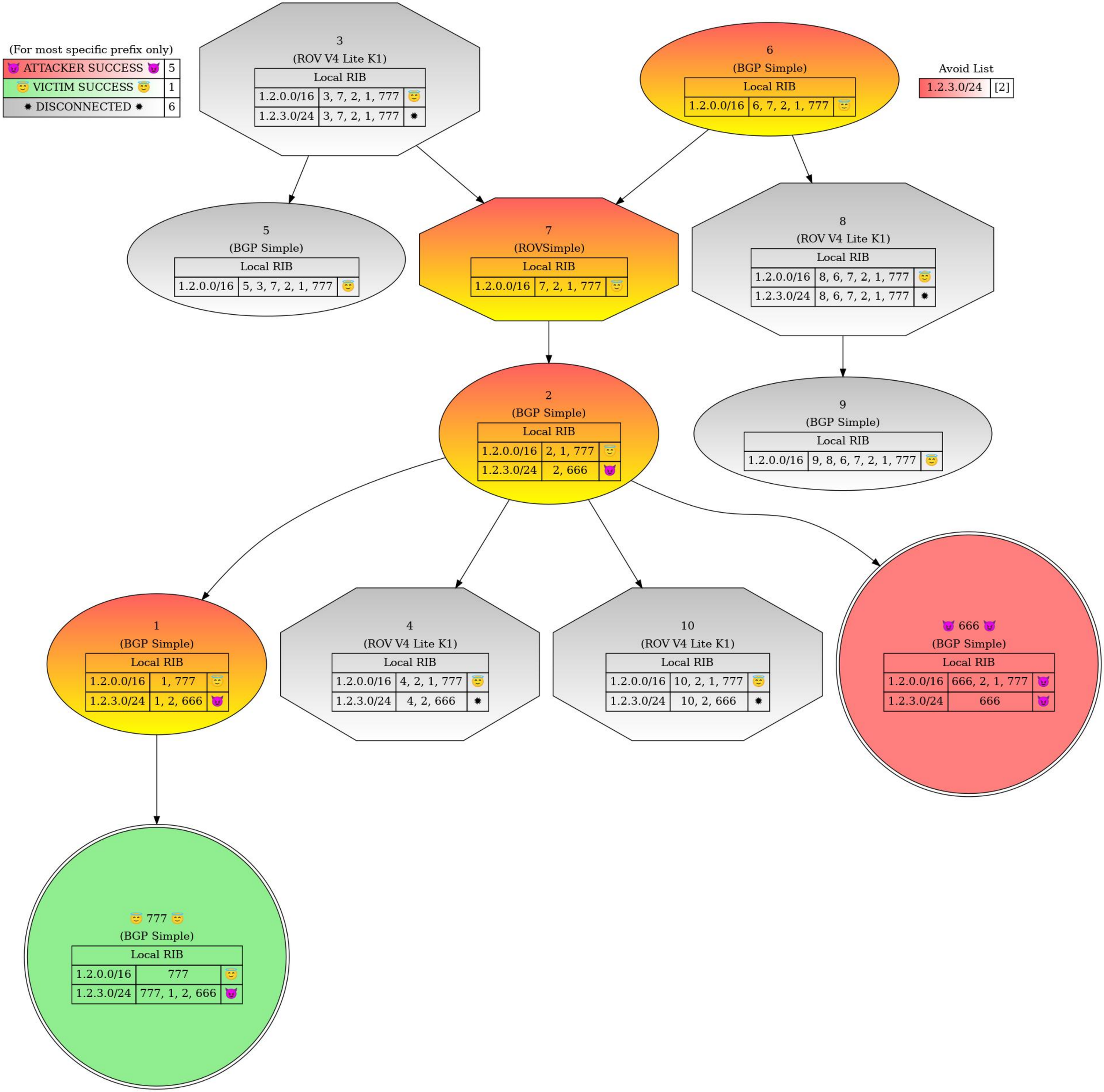

(125 Guess)
Subprefix Hijack with V1 Lite
Traceback for 1.2.3.0/24



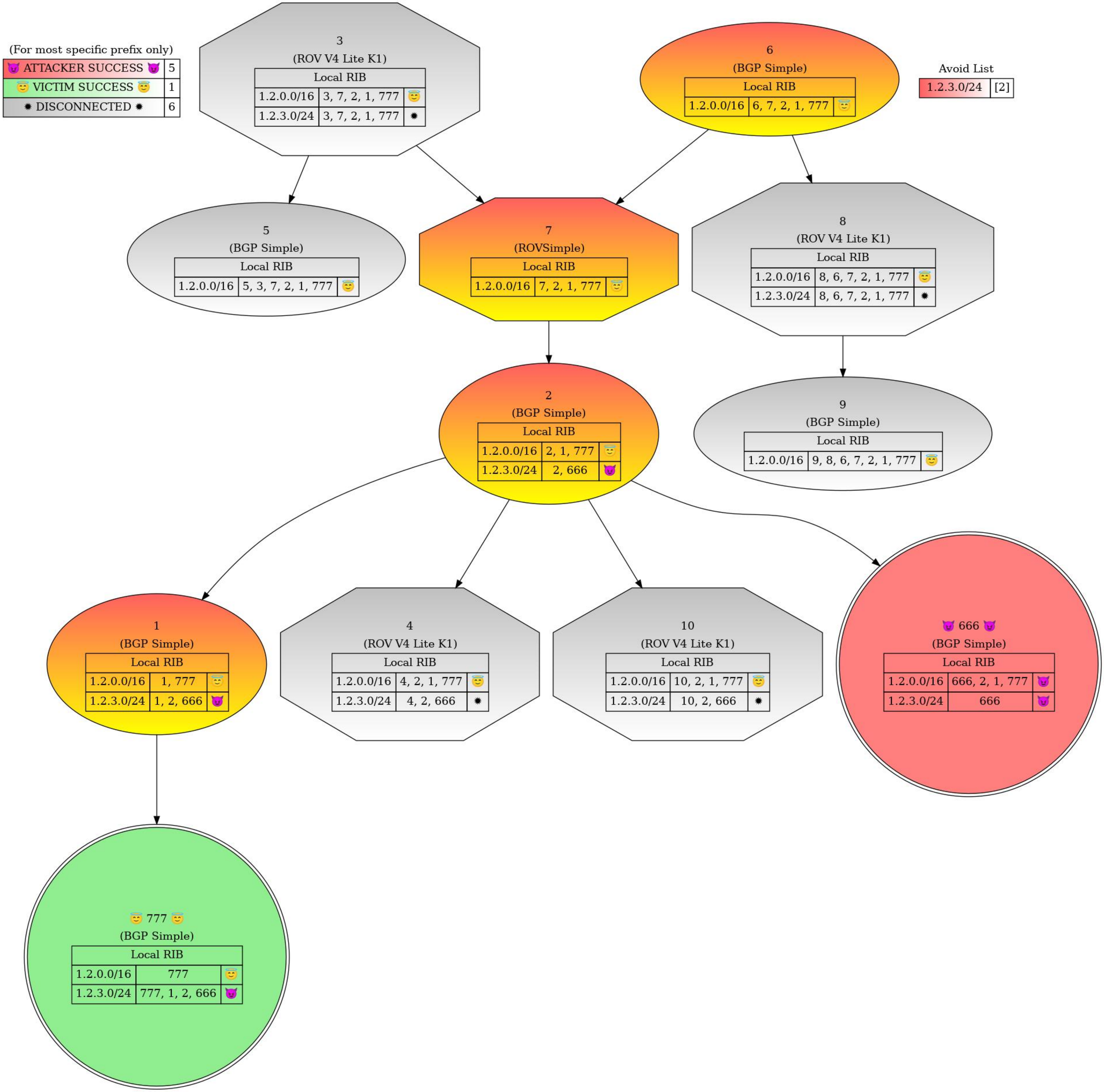

(126 Ground Truth)
Subprefix Hijack with V4 Lite
Traceback for 1.2.3.0/24



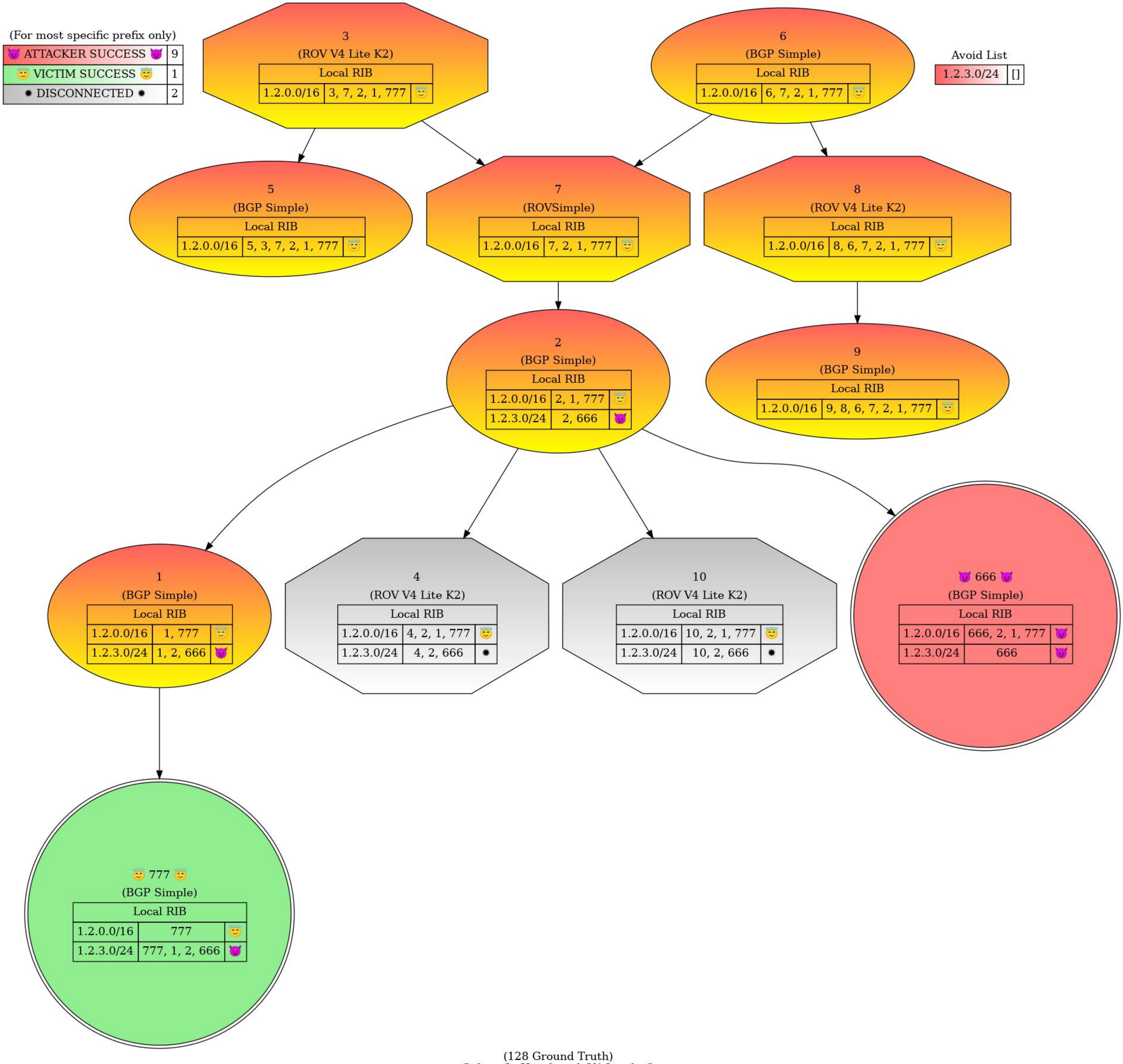

(126 Guess)
Subprefix Hijack with V4 Lite
Traceback for 1.2.3.0/24



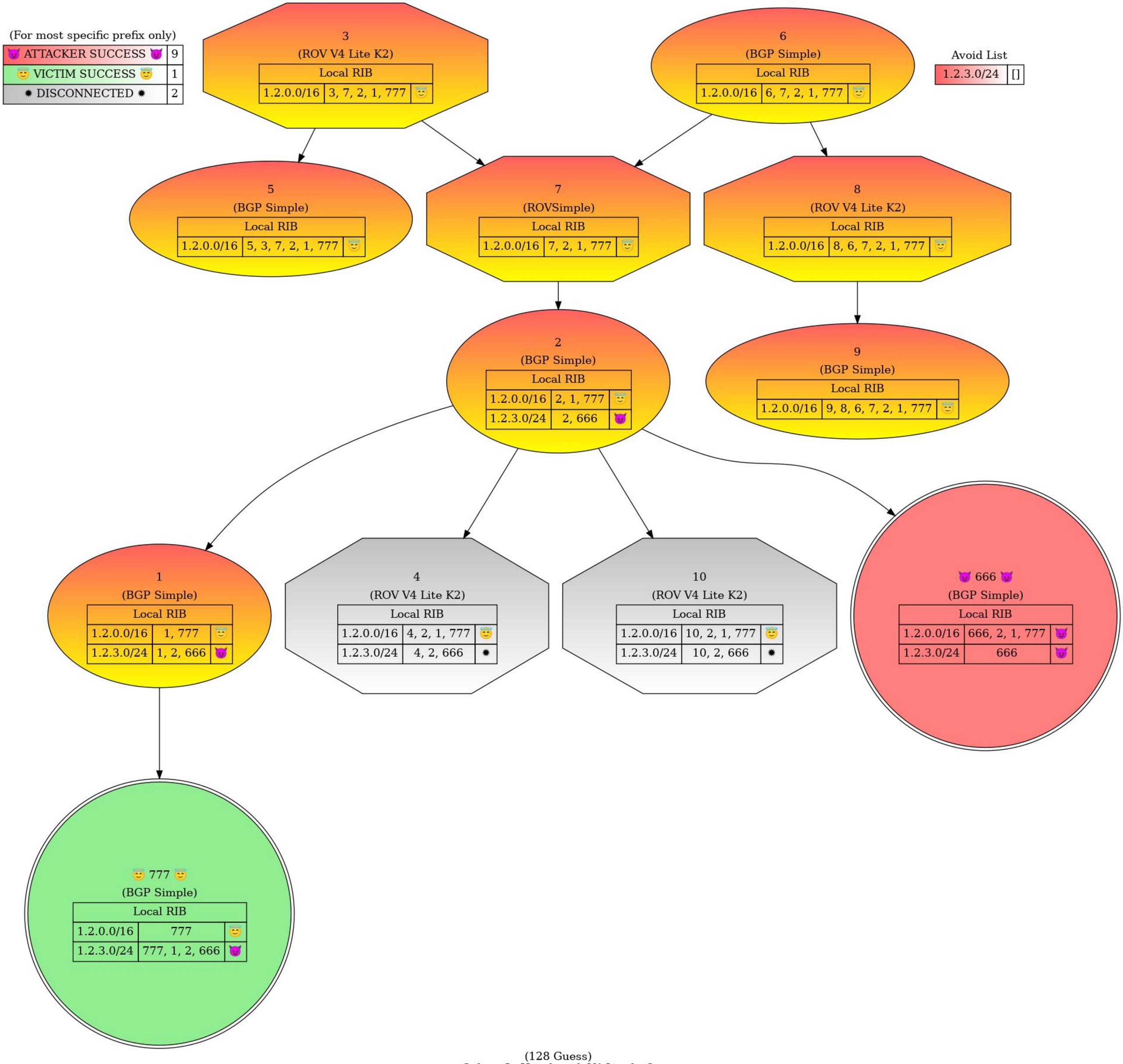

(127 Ground Truth)
Subprefix Hijack with V4 Lite k=1
Traceback for 1.2.3.0/24



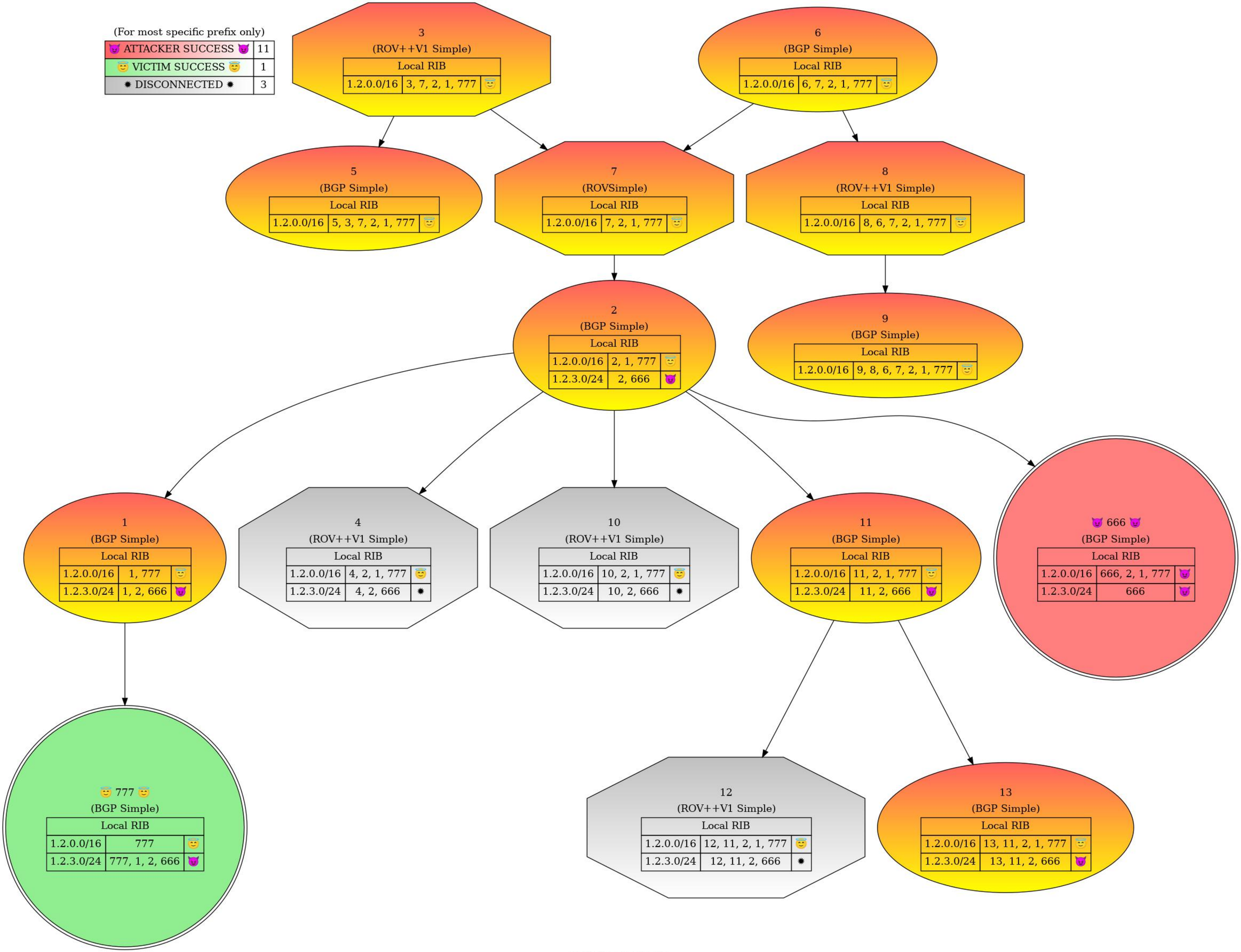

(127 Guess)
Subprefix Hijack with V4 Lite k=1
Traceback for 1.2.3.0/24



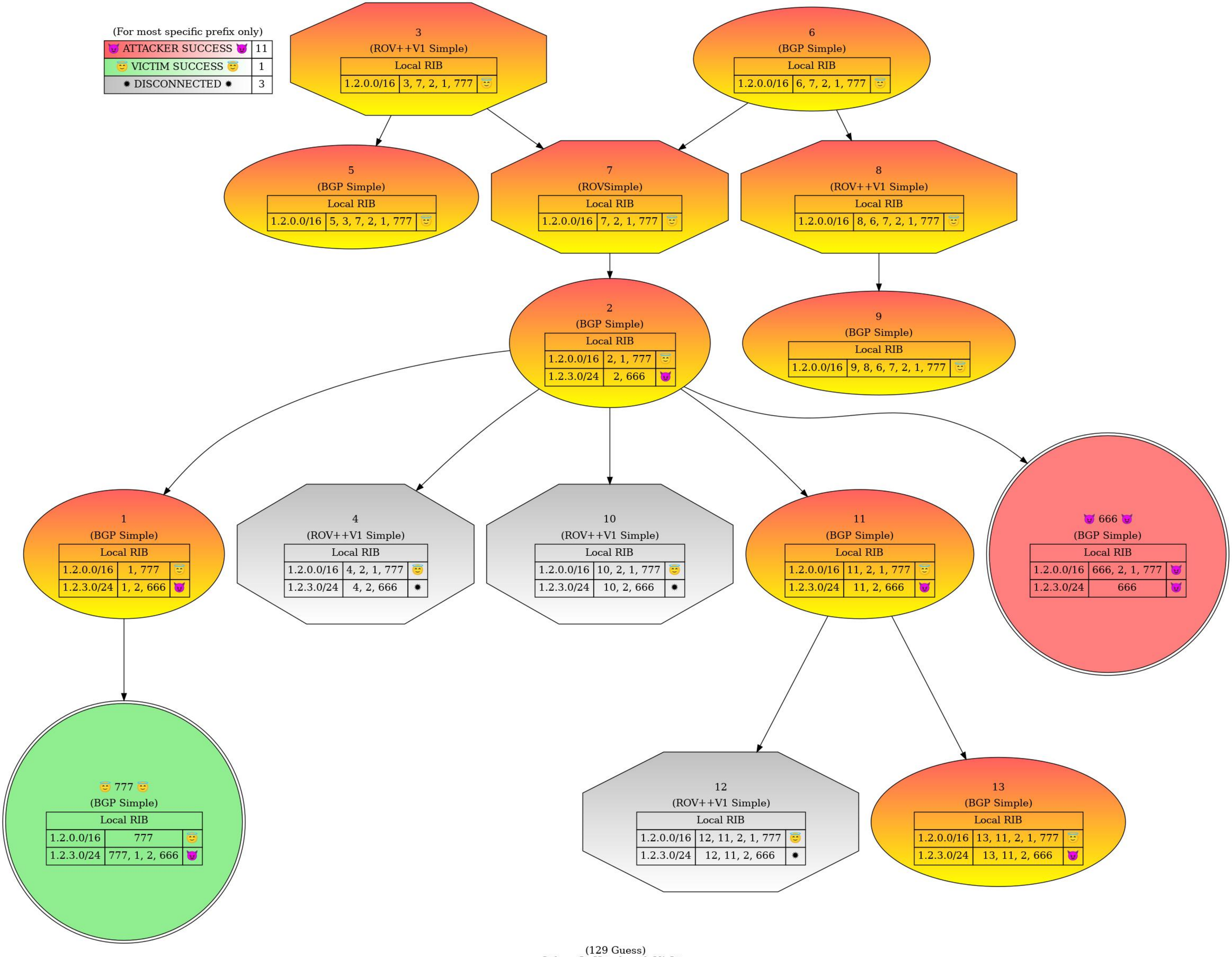

(128 Ground Truth)
Subprefix Hijack with V4 Lite k=2
Traceback for 1.2.3.0/24



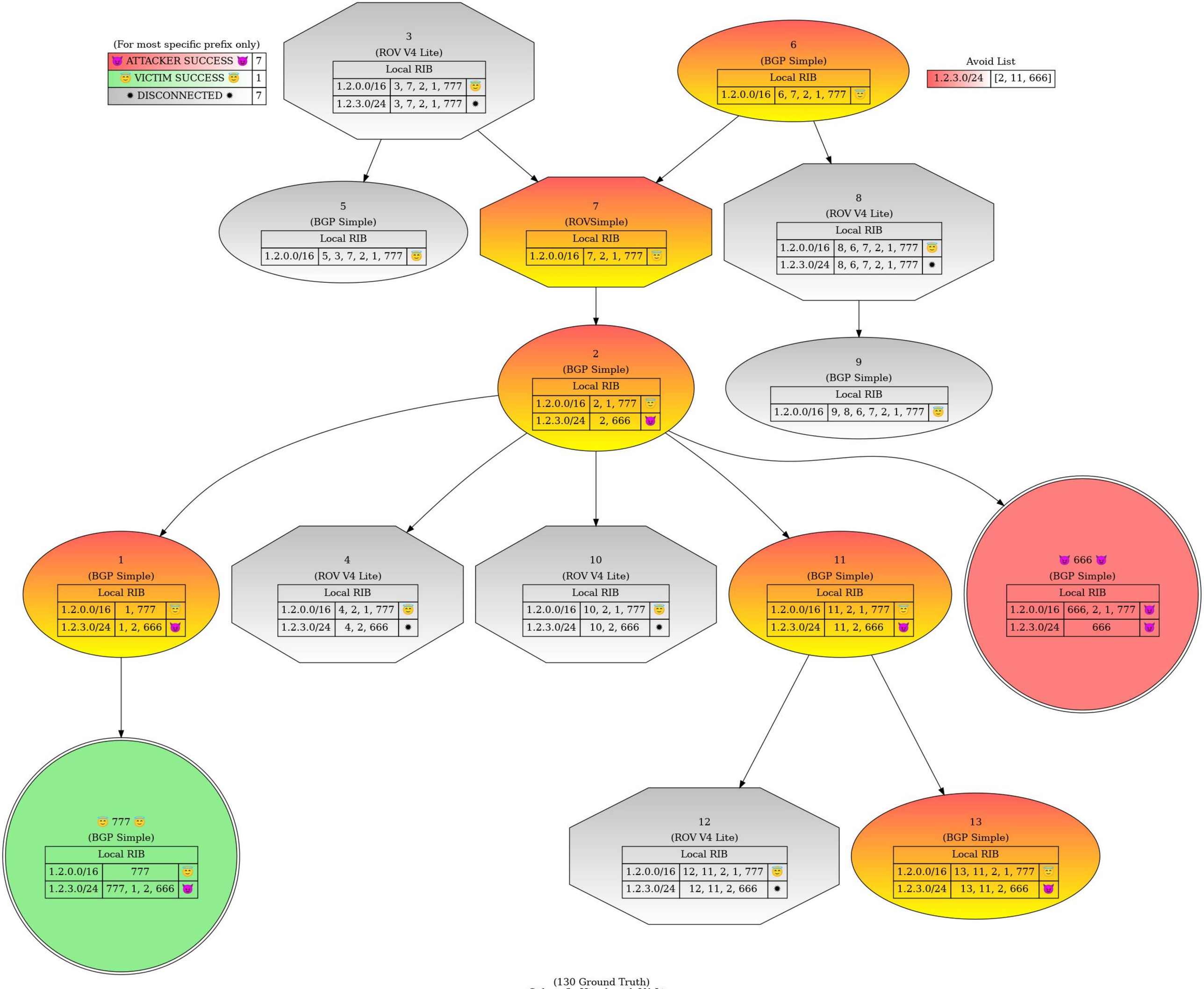

(128 Guess)
Subprefix Hijack with V4 Lite k=2
Traceback for 1.2.3.0/24



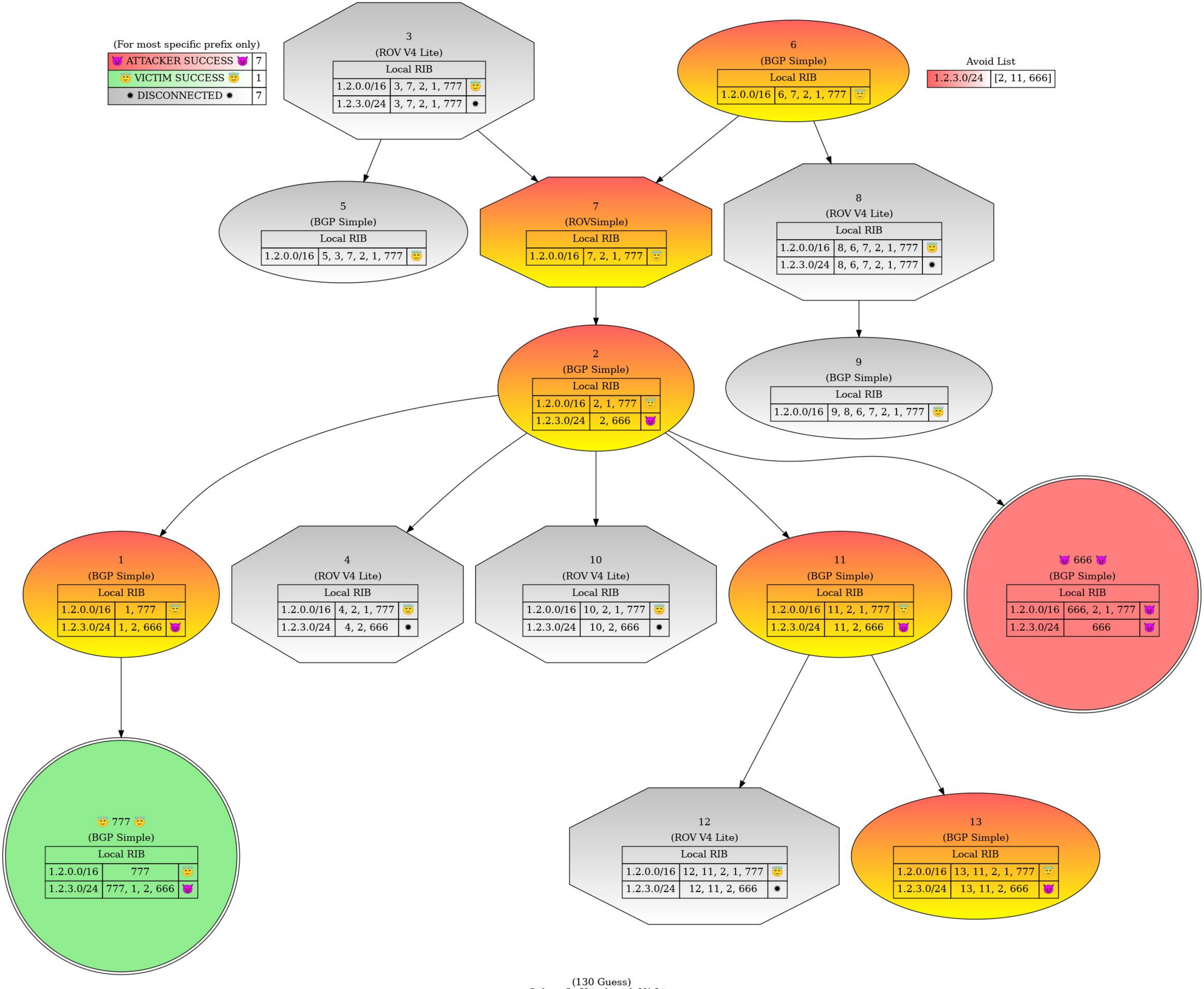

(129 Ground Truth)
Subprefix Hijack with V1 Lite
Traceback for 1.2.3.0/24



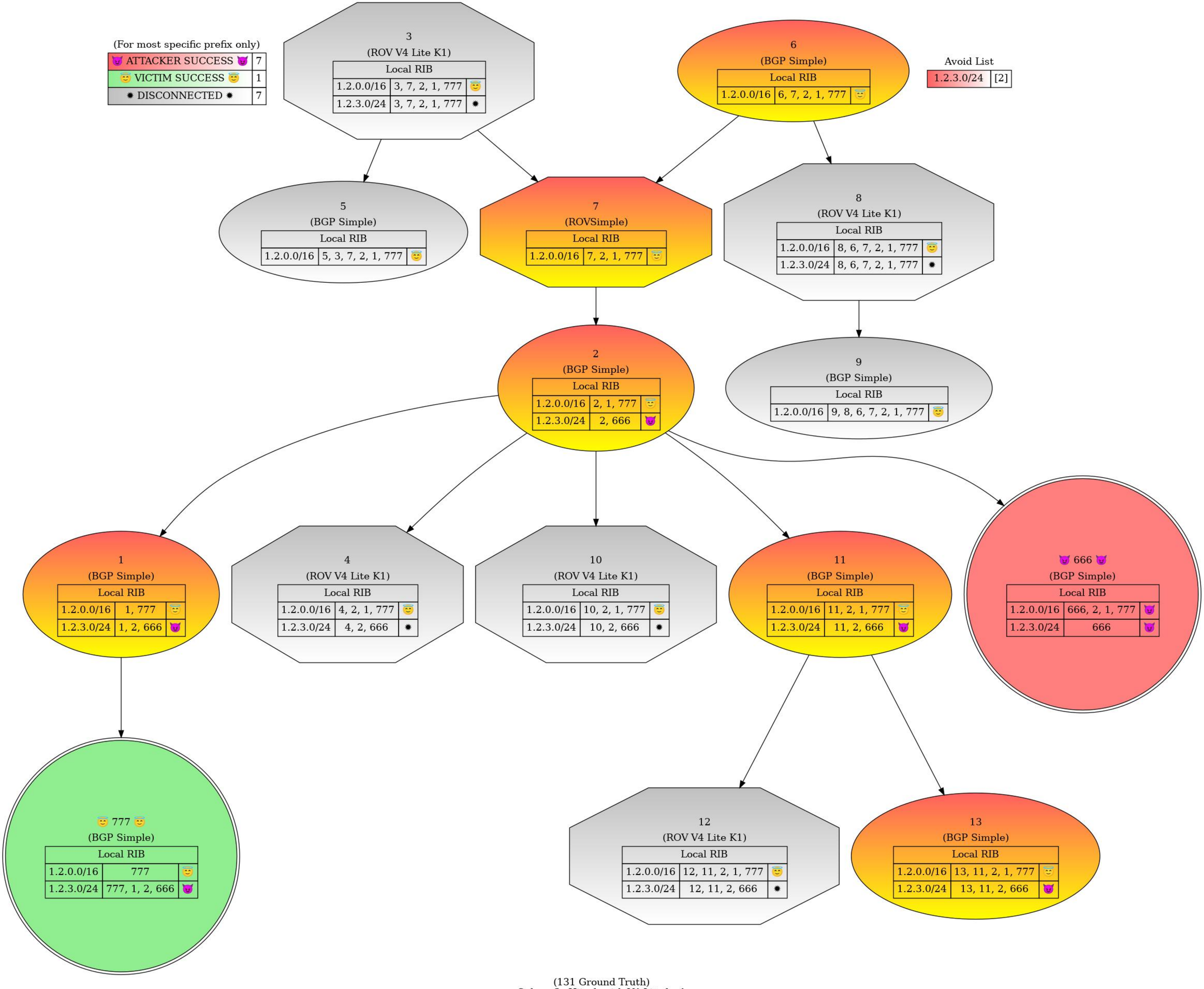

(129 Guess)
Subprefix Hijack with V1 Lite
Traceback for 1.2.3.0/24



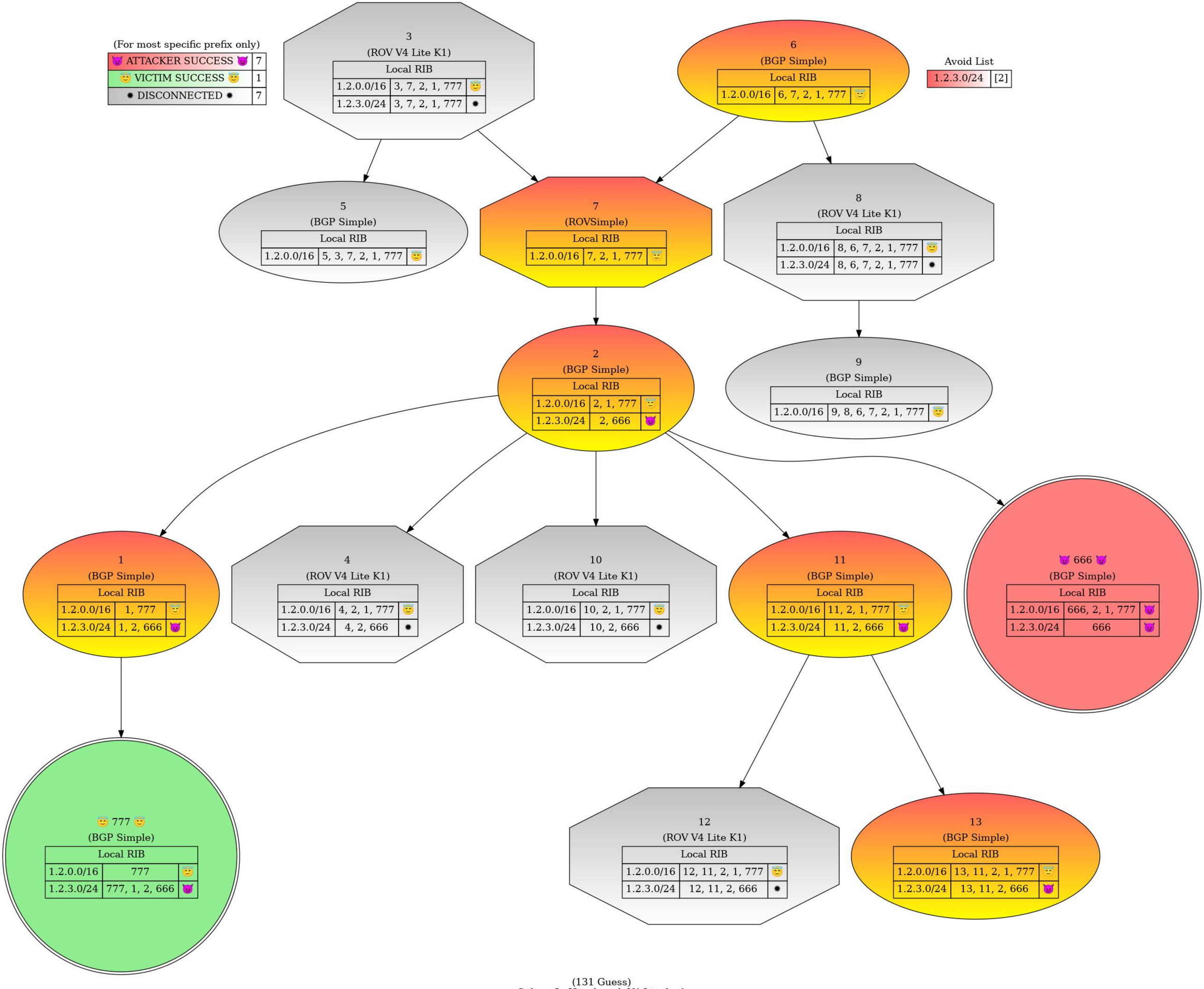

(130 Ground Truth)
Subprefix Hijack with V4 Lite
Traceback for 1.2.3.0/24



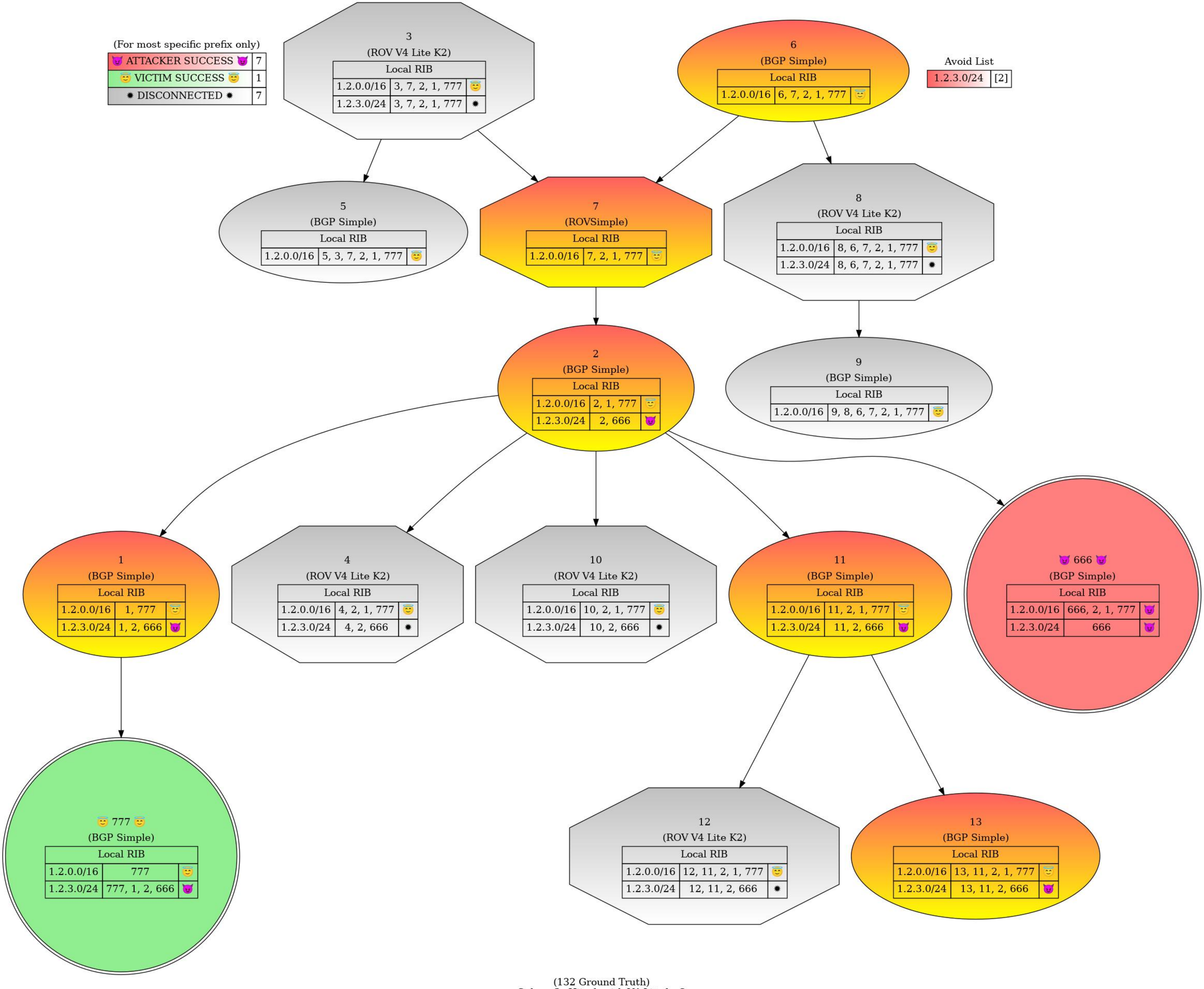

(130 Guess)
Subprefix Hijack with V4 Lite
Traceback for 1.2.3.0/24



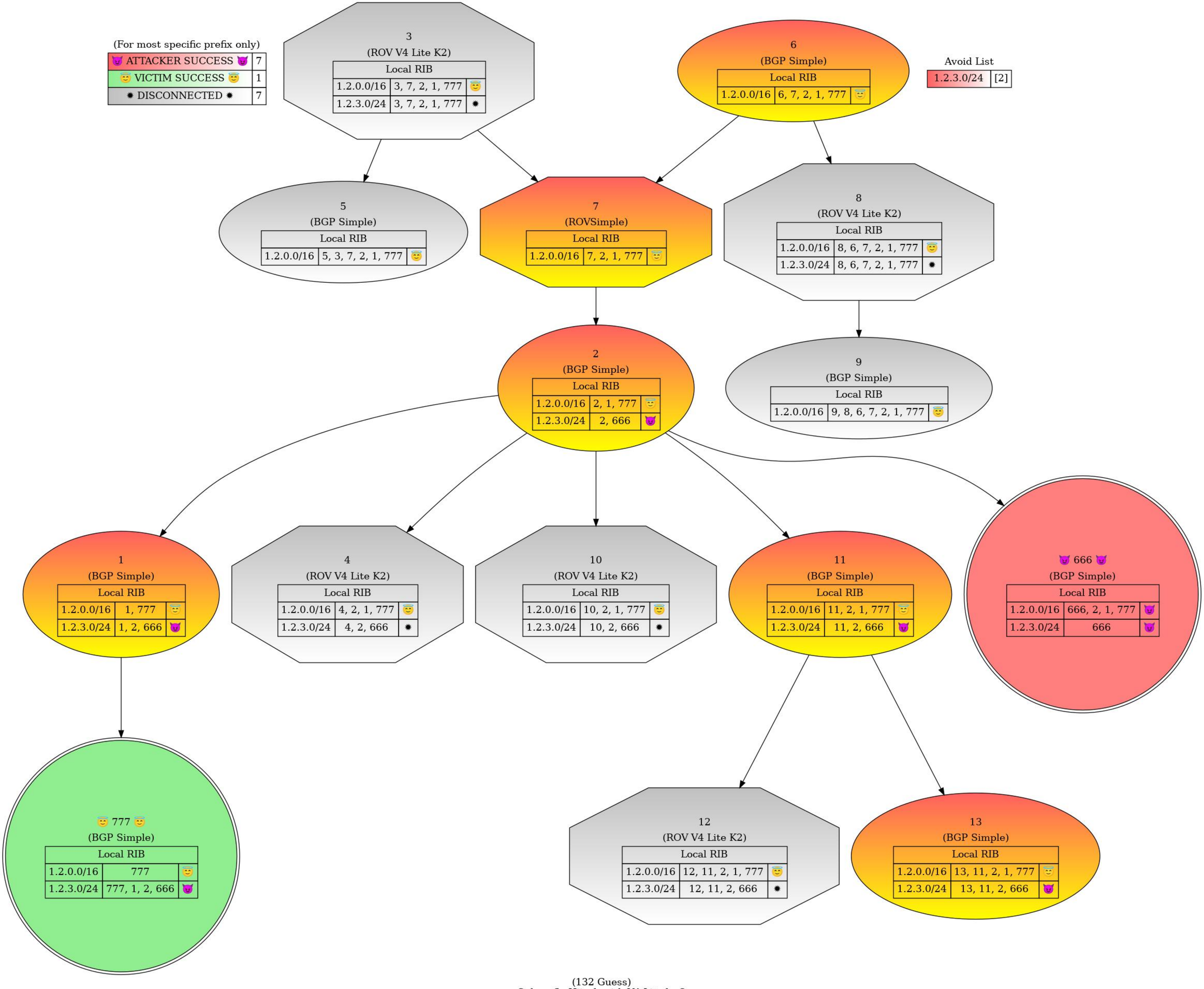

(131 Ground Truth)
Subprefix Hijack with V4 Lite k=1
Traceback for 1.2.3.0/24



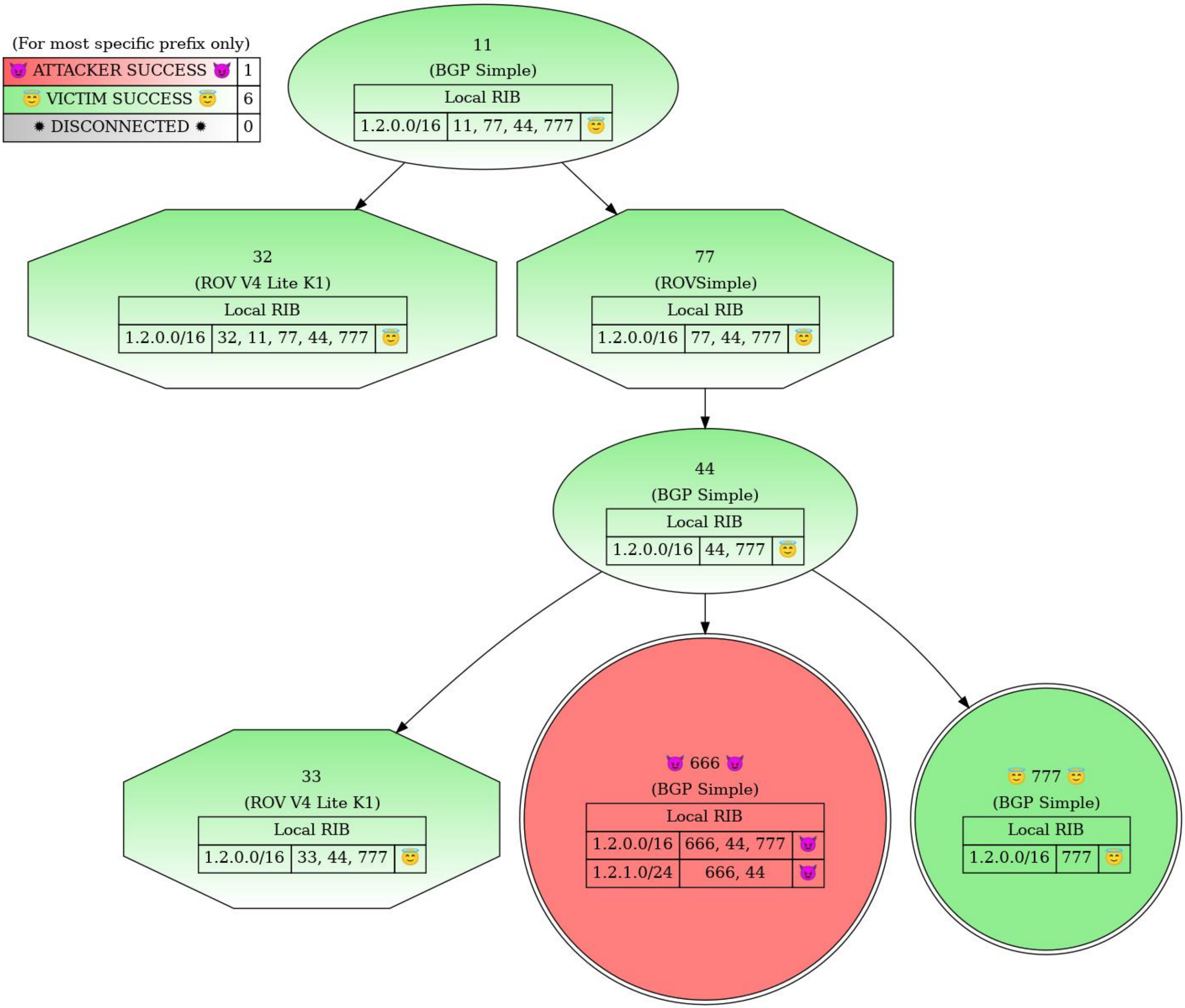

(131 Guess)
Subprefix Hijack with V4 Lite k=1
Traceback for 1.2.3.0/24



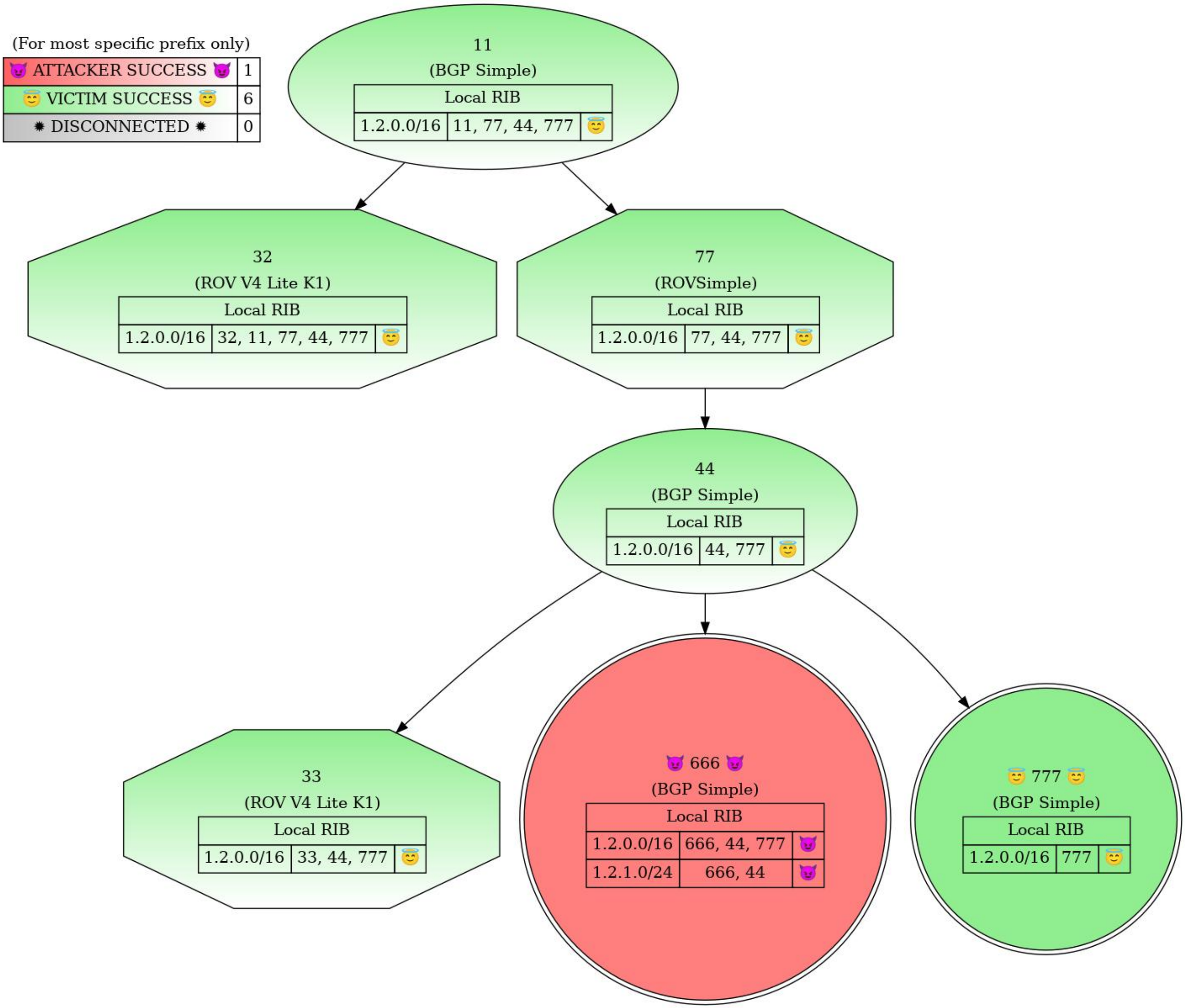

(132 Ground Truth)
Subprefix Hijack with V4 Lite k=2
Traceback for 1.2.3.0/24



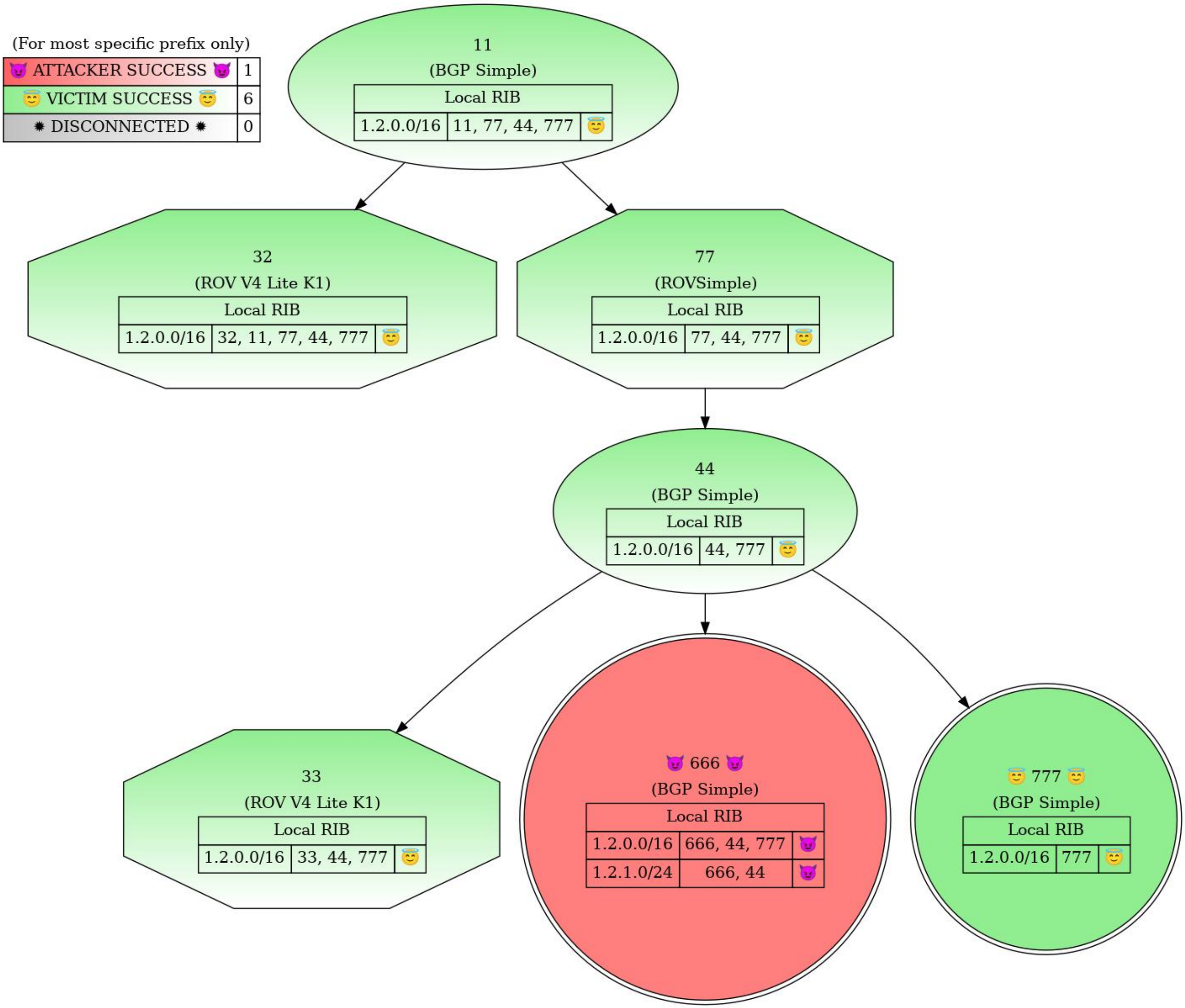

(132 Guess)
Subprefix Hijack with V4 Lite k=2
Traceback for 1.2.3.0/24



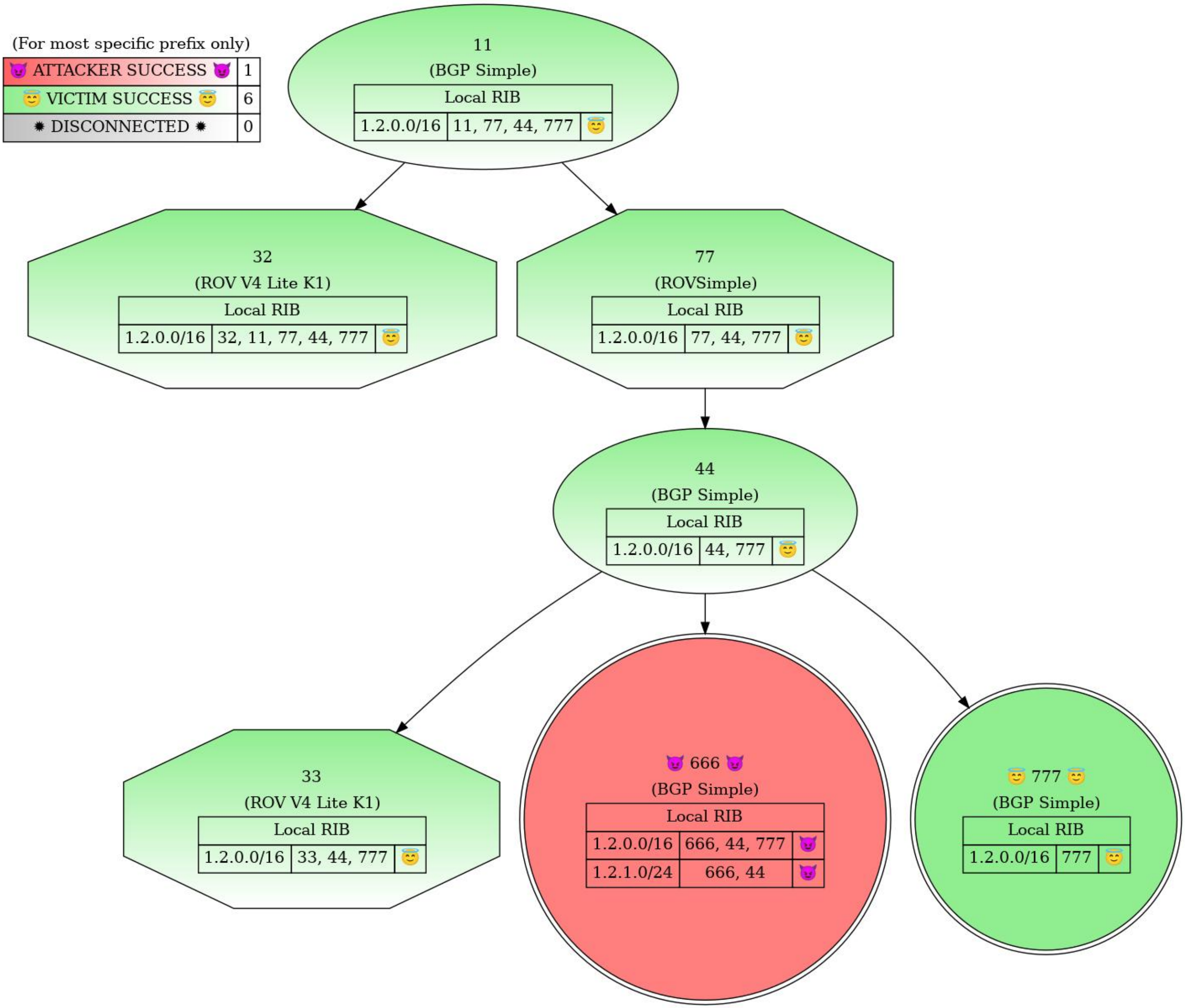

(133 Ground Truth)
AutoImmune Attack with V4 Lite k=1
Traceback for 1.2.0.0/16



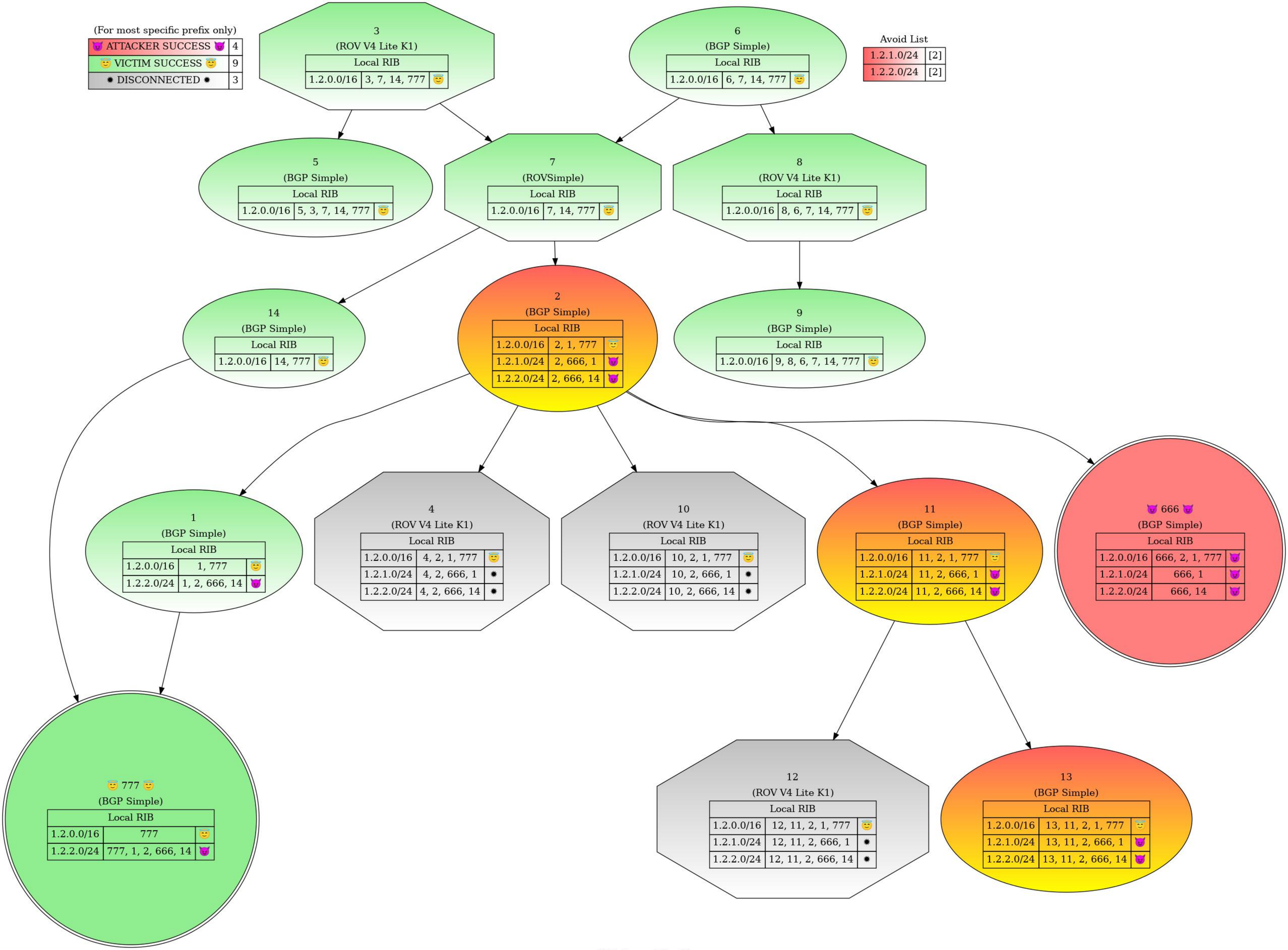

(133 Ground Truth)
AutoImmune Attack with V4 Lite k=1
Traceback for 1.2.1.0/24



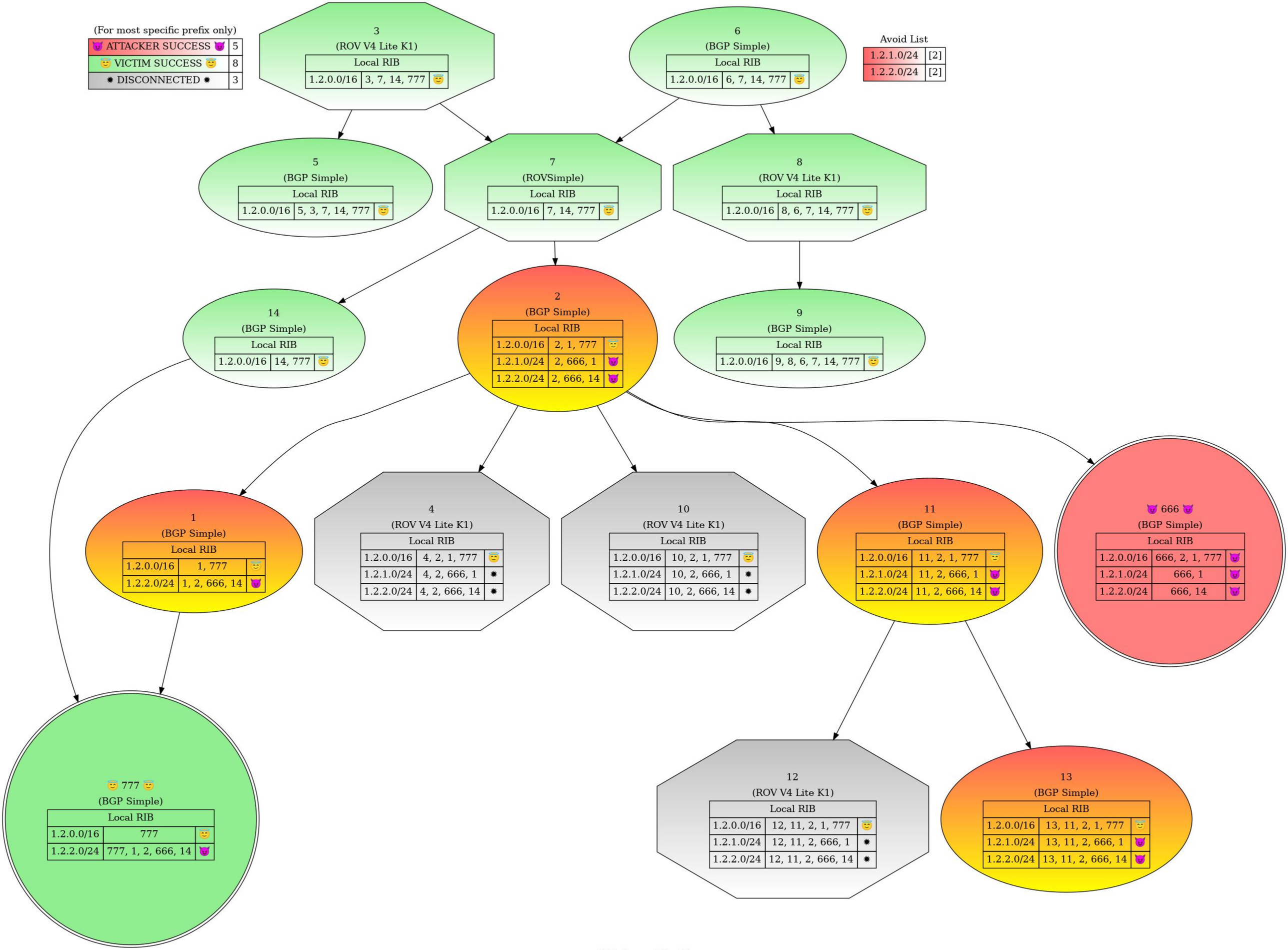

(133 Guess)
AutoImmune Attack with V4 Lite k=1
Traceback for 1.2.0.0/16



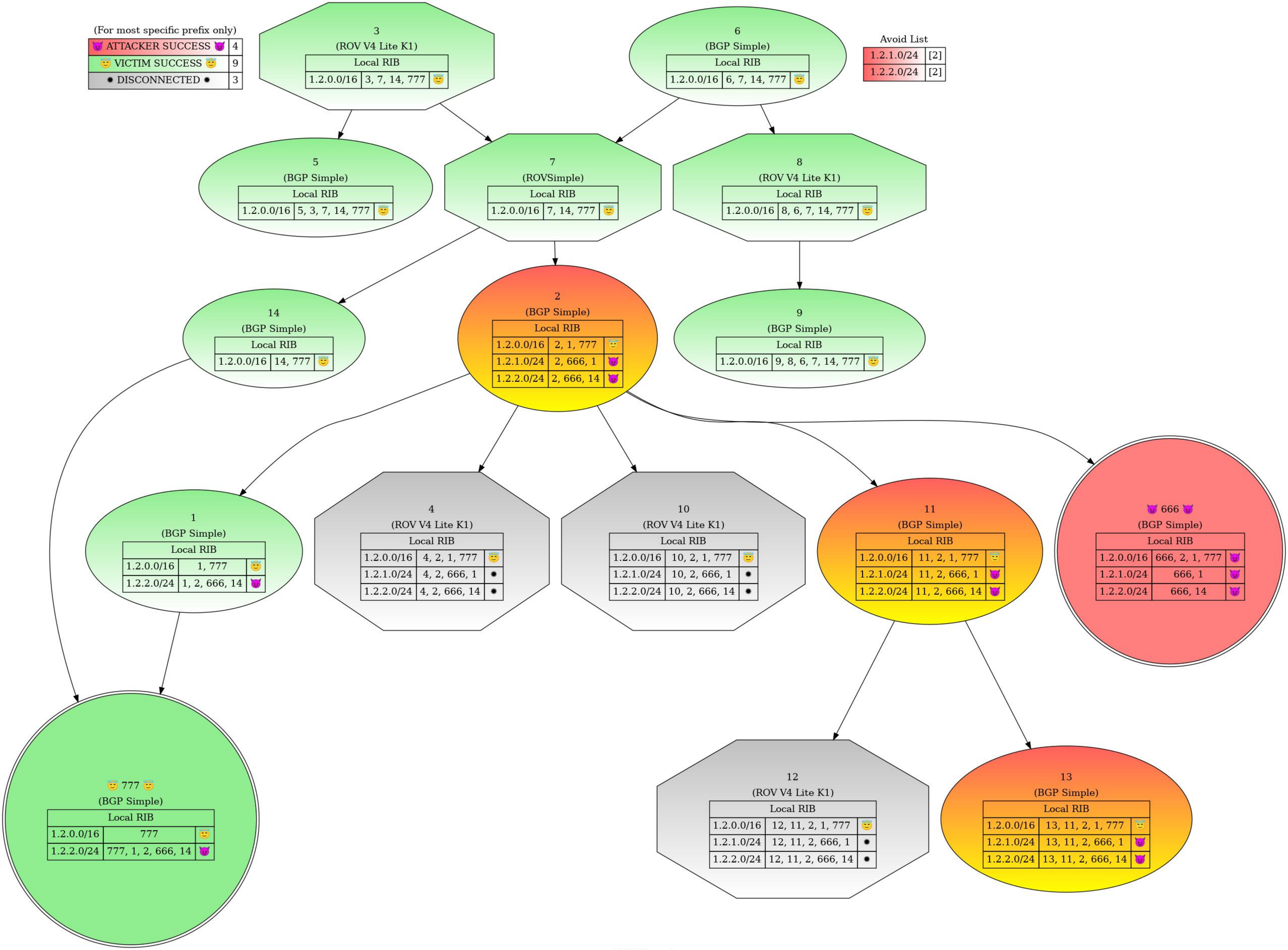

(133 Guess)
AutoImmune Attack with V4 Lite k=1
Traceback for 1.2.1.0/24



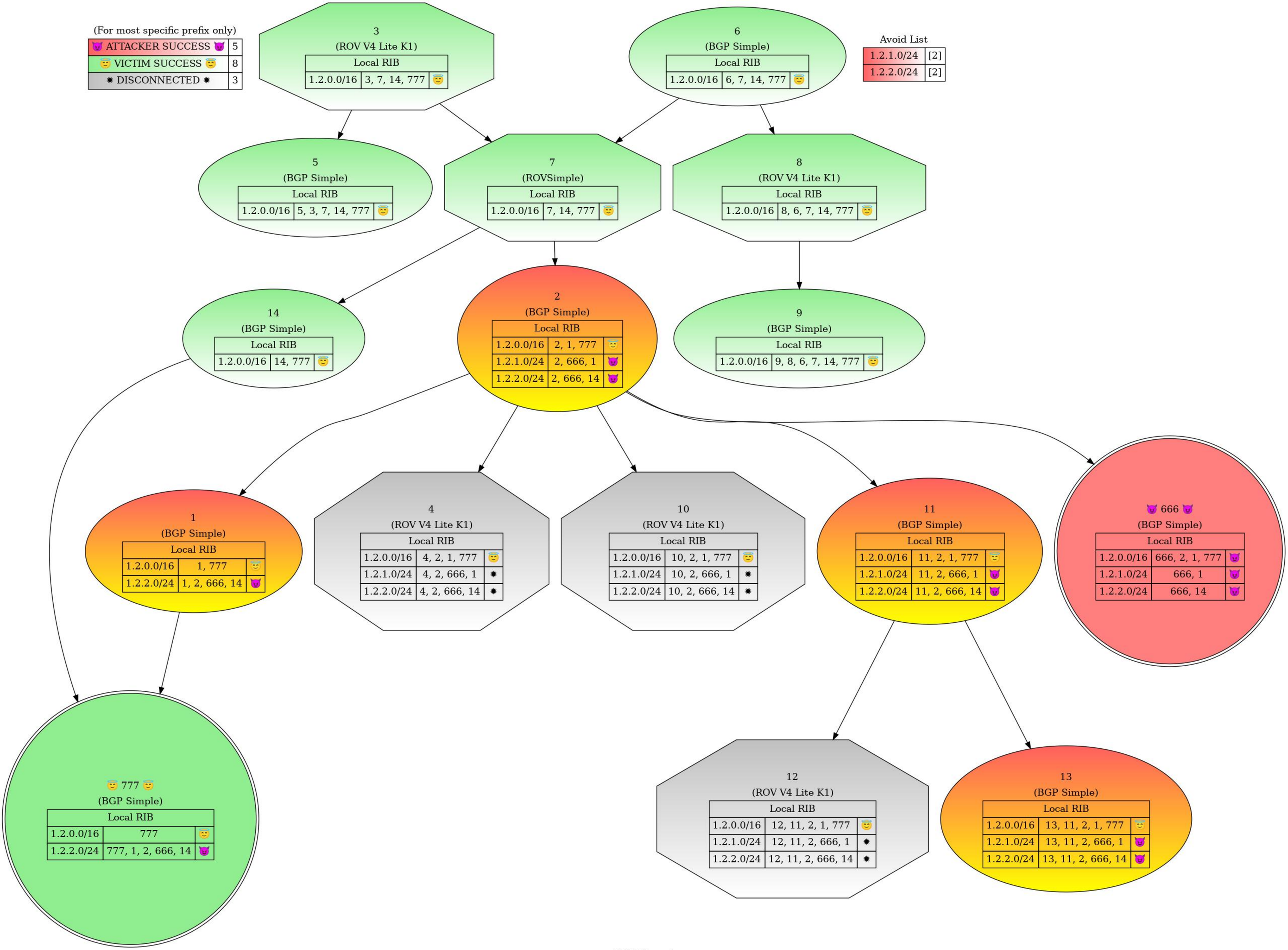

(134 Ground Truth)
AutoImmune Attack with V4 Lite k=1
Traceback for 1.2.1.0/24



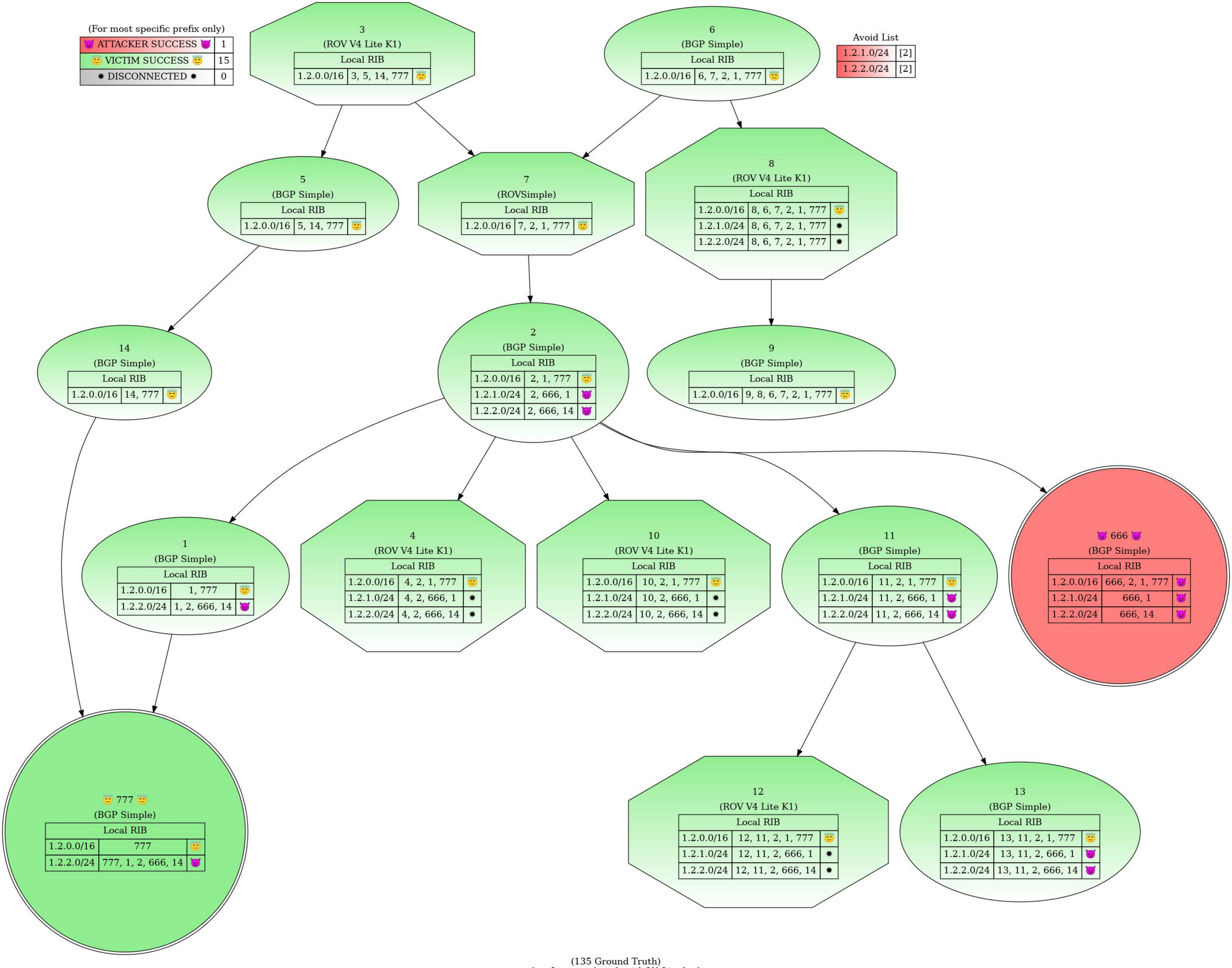

(134 Ground Truth)
AutoImmune Attack with V4 Lite k=1
Traceback for 1.2.2.0/24



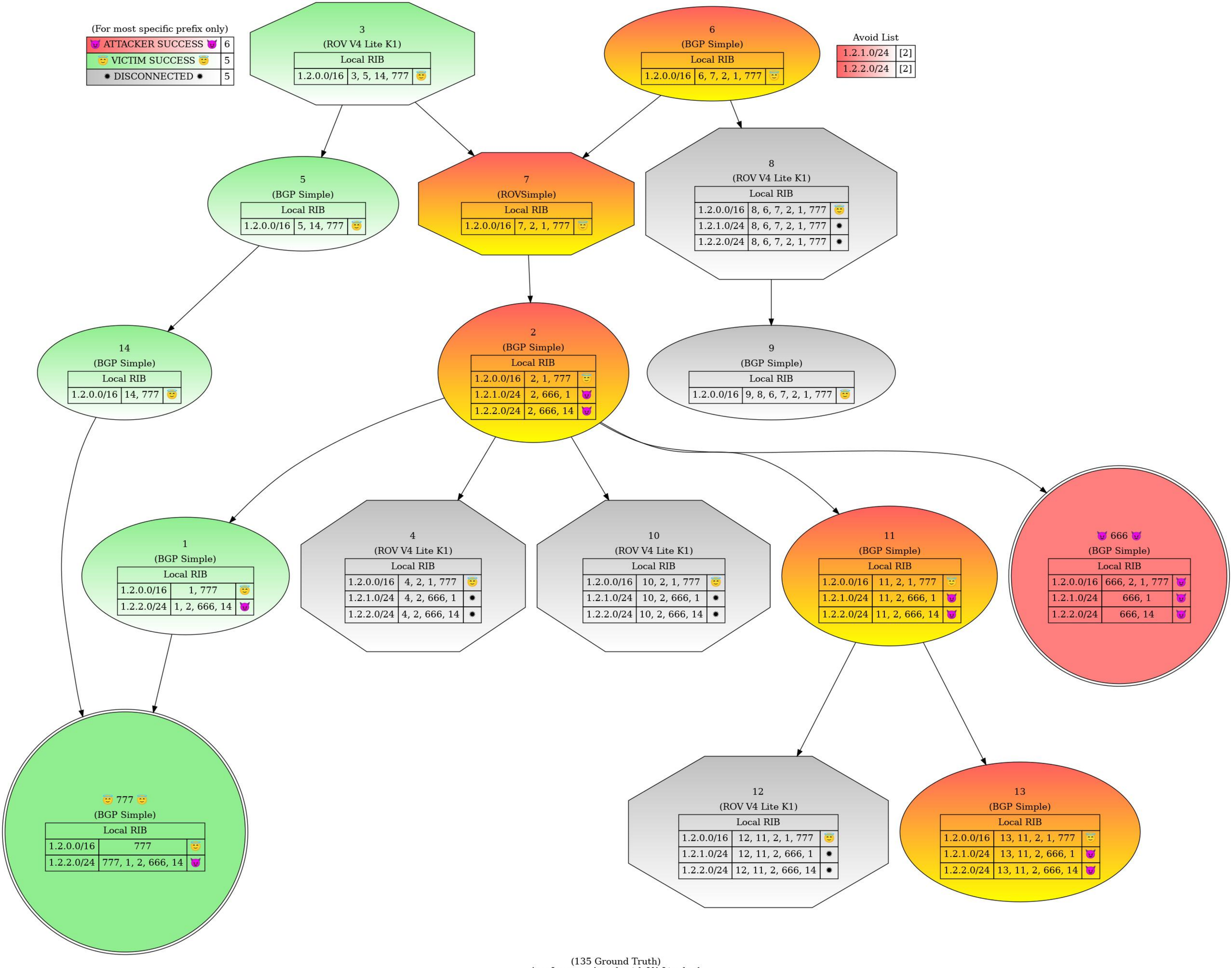

(134 Guess)
AutoImmune Attack with V4 Lite k=1
Traceback for 1.2.1.0/24



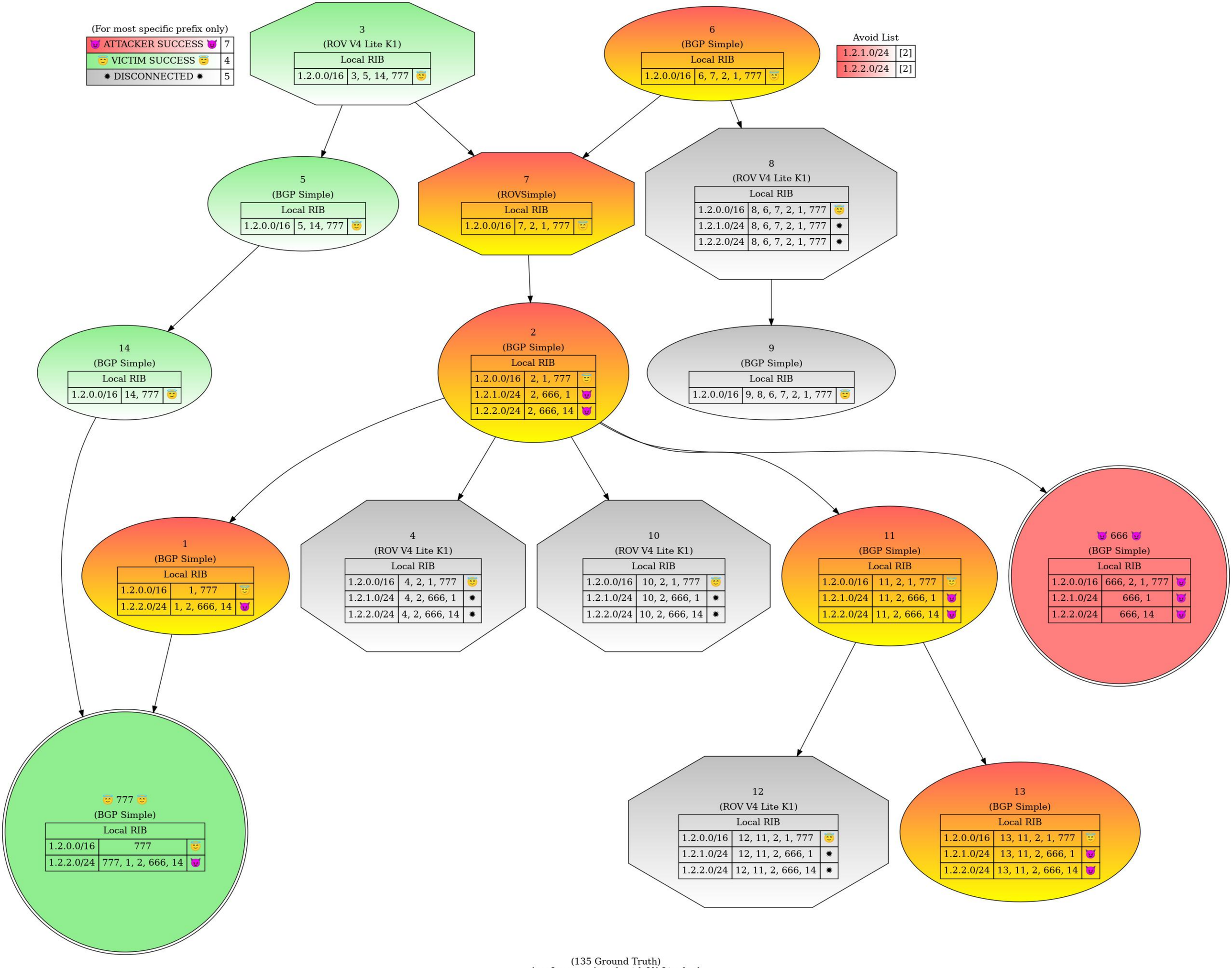

(134 Guess)
AutoImmune Attack with V4 Lite k=1
Traceback for 1.2.2.0/24



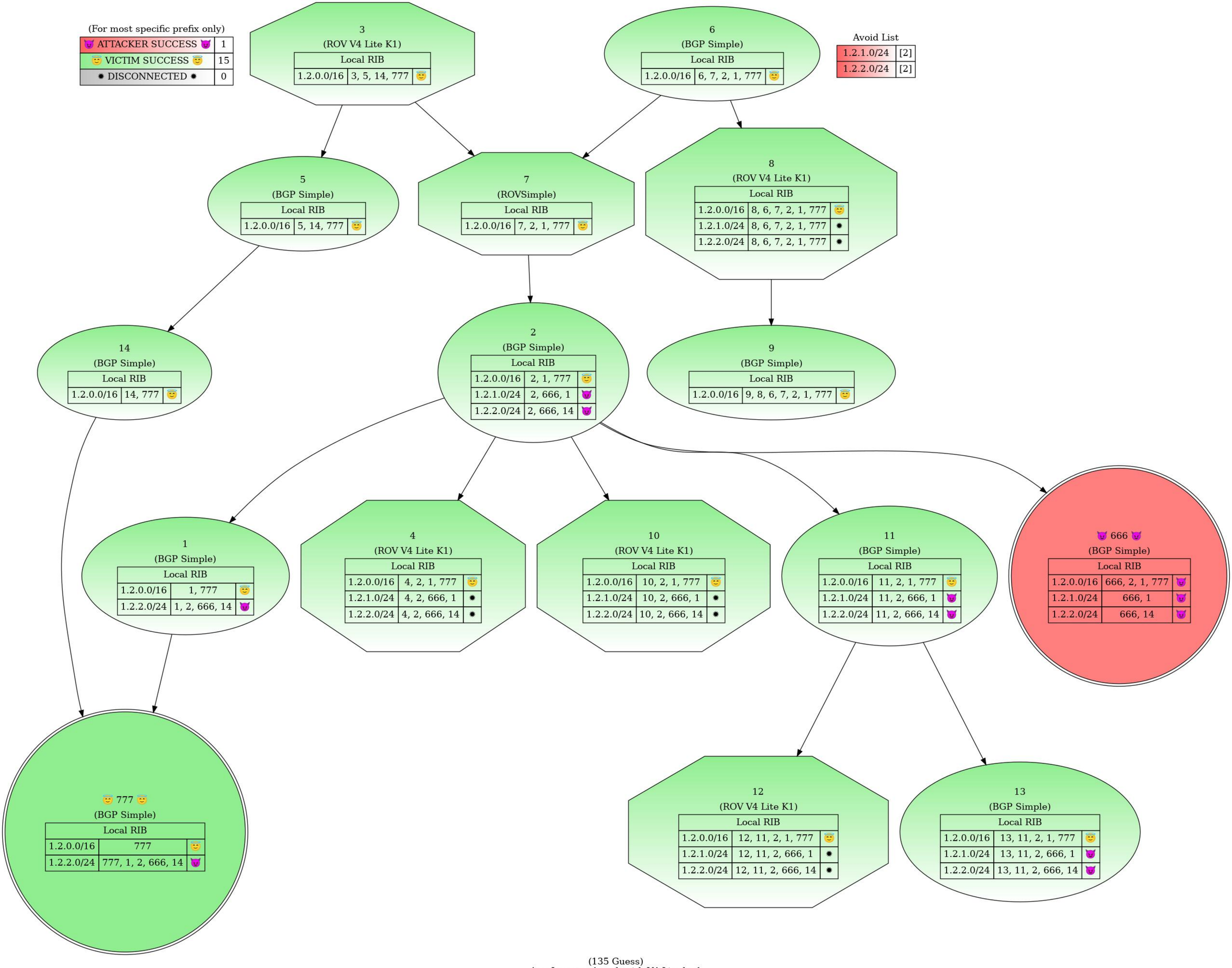

(135 Ground Truth)
AutoImmune Attack with V4 Lite k=1
Traceback for 1.2.0.0/16



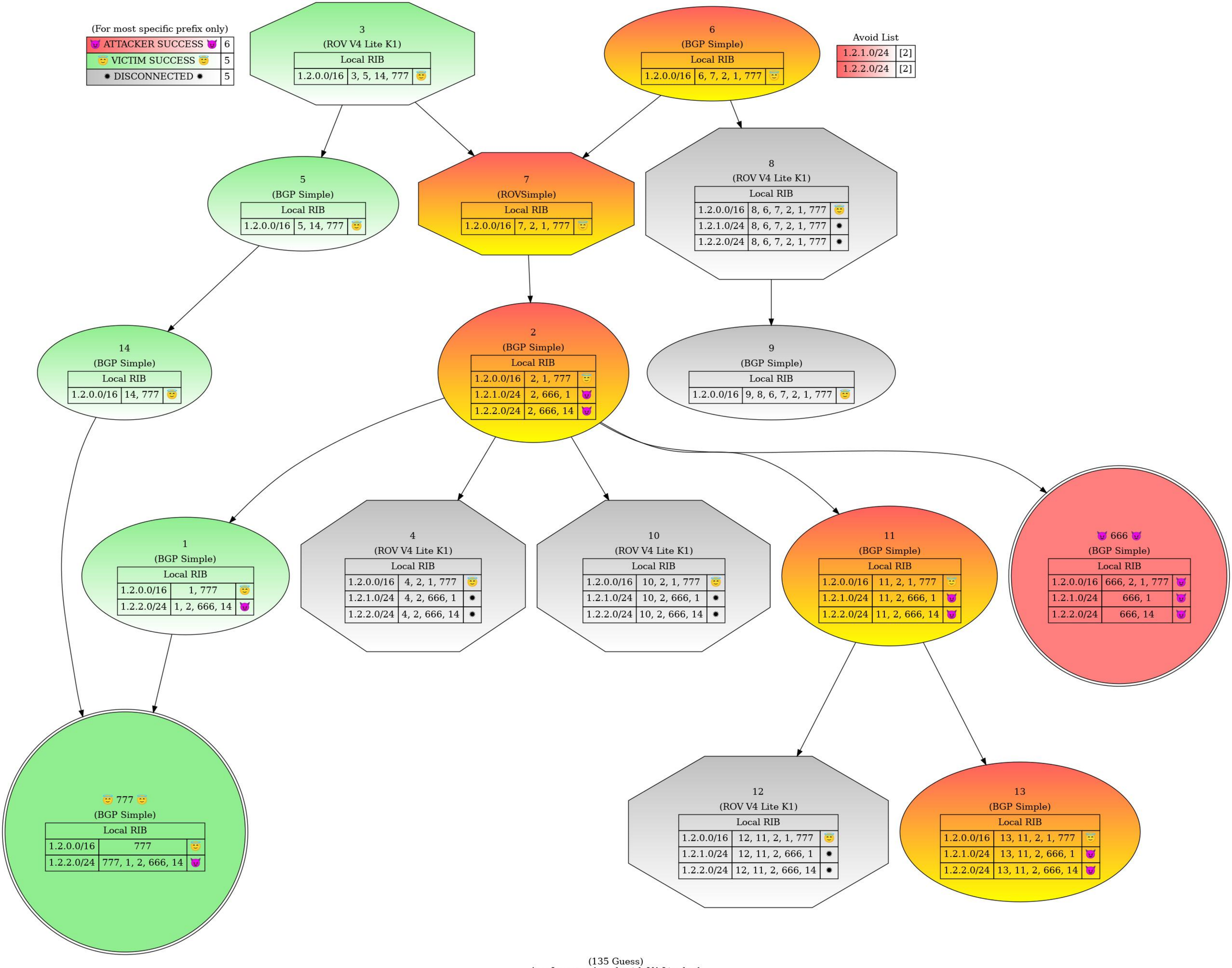

(135 Ground Truth)
AutoImmune Attack with V4 Lite k=1
Traceback for 1.2.1.0/24



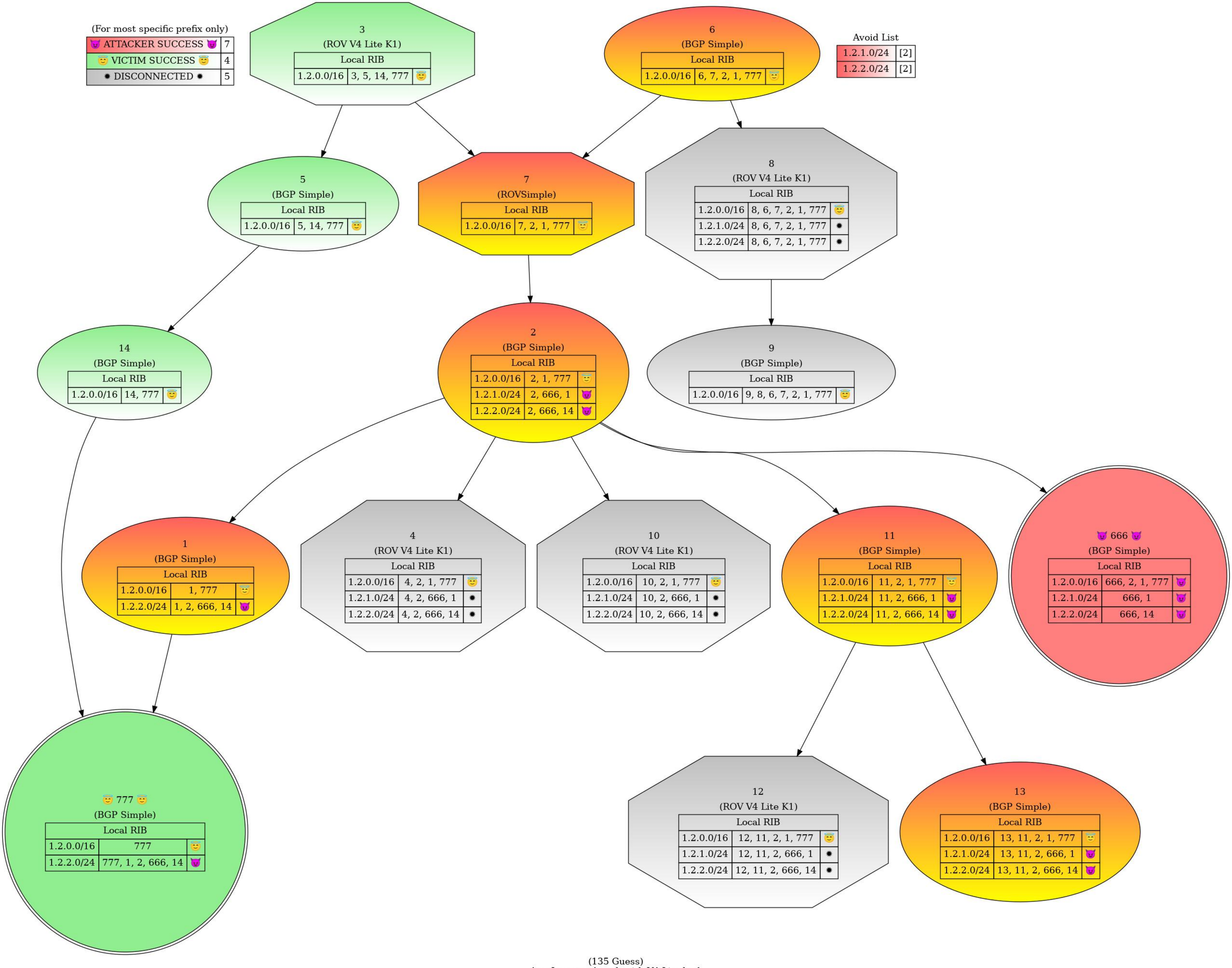

(135 Ground Truth)
AutoImmune Attack with V4 Lite k=1
Traceback for 1.2.2.0/24



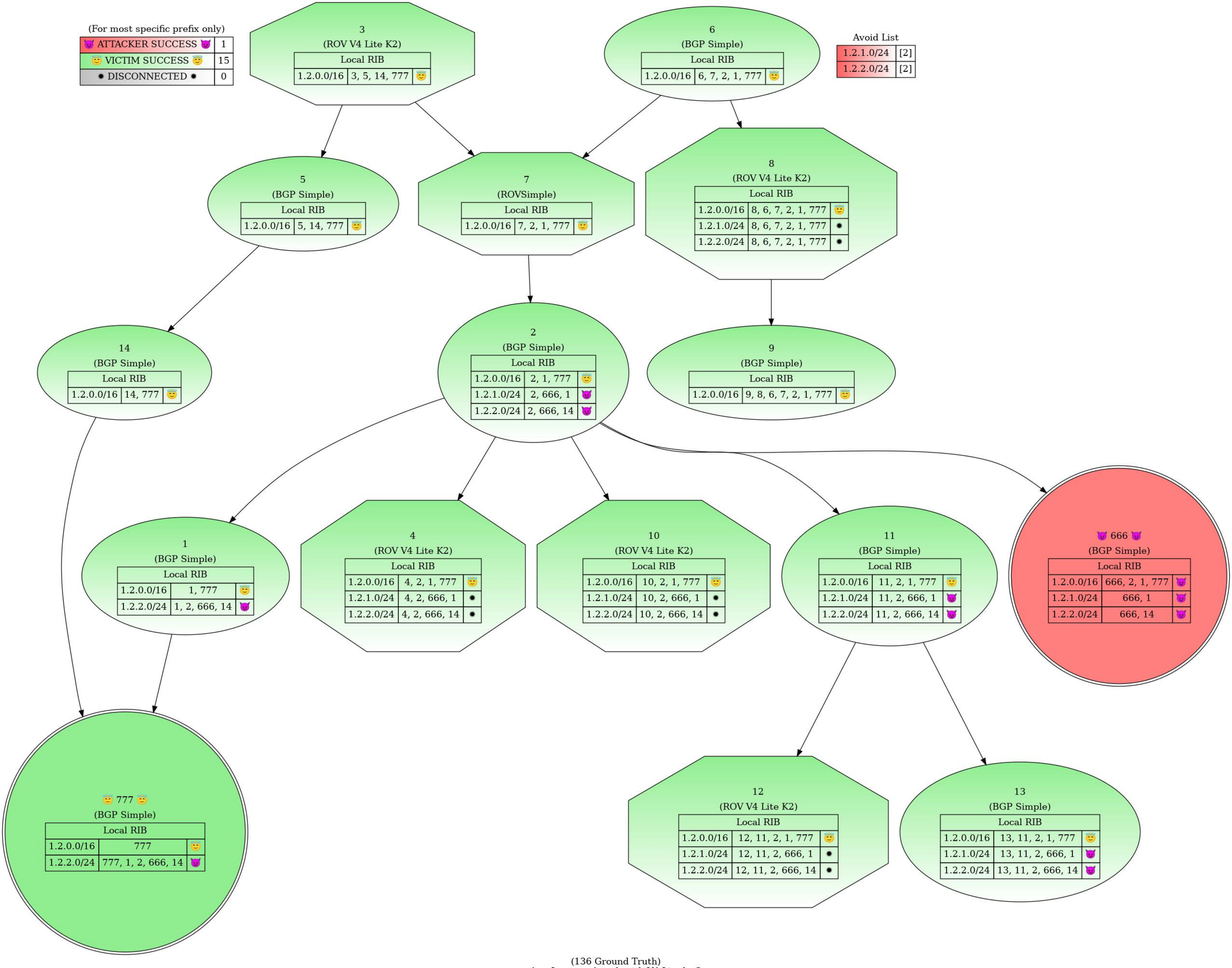

(135 Guess)
AutoImmune Attack with V4 Lite k=1
Traceback for 1.2.0.0/16



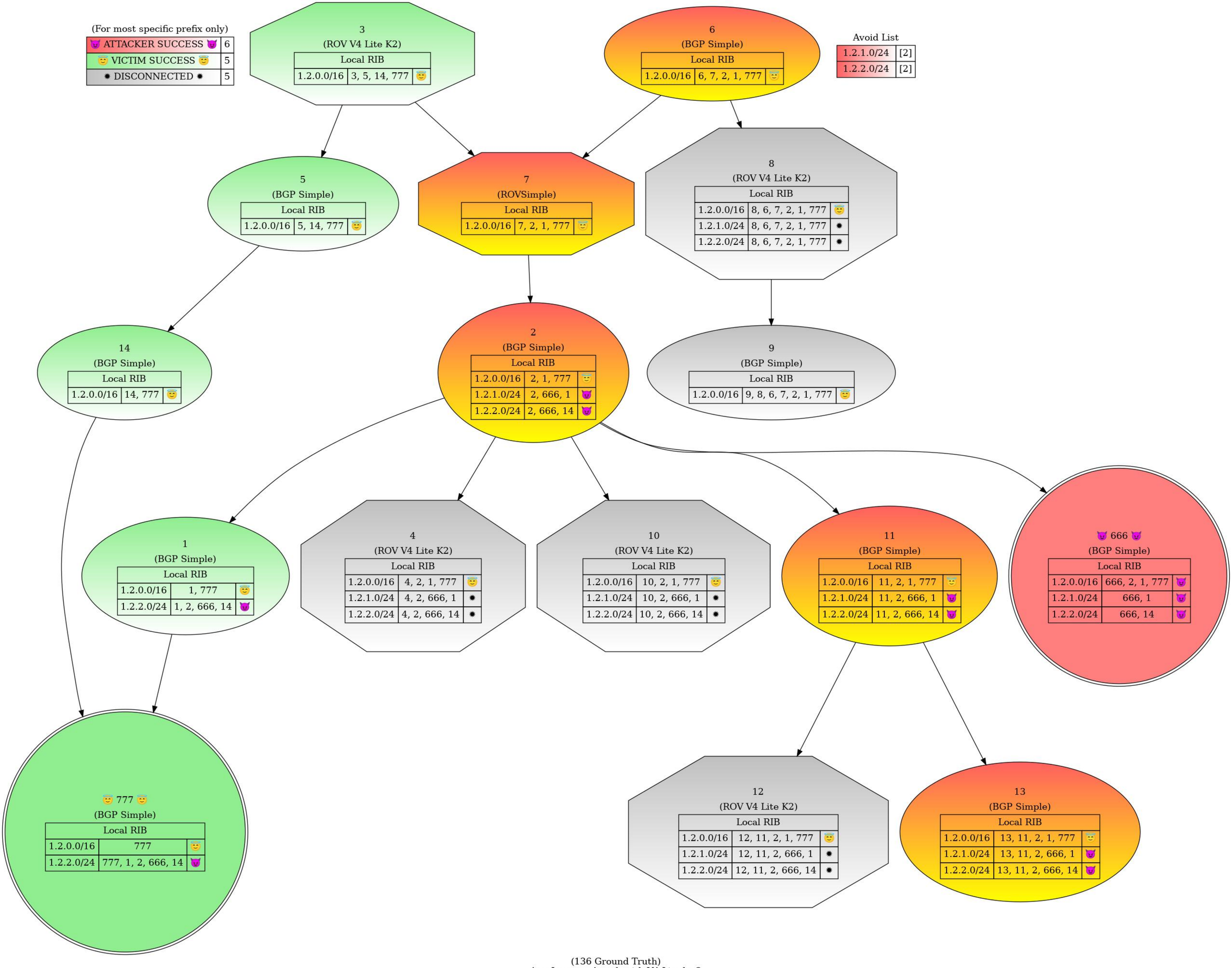

(135 Guess)
AutoImmune Attack with V4 Lite k=1
Traceback for 1.2.1.0/24



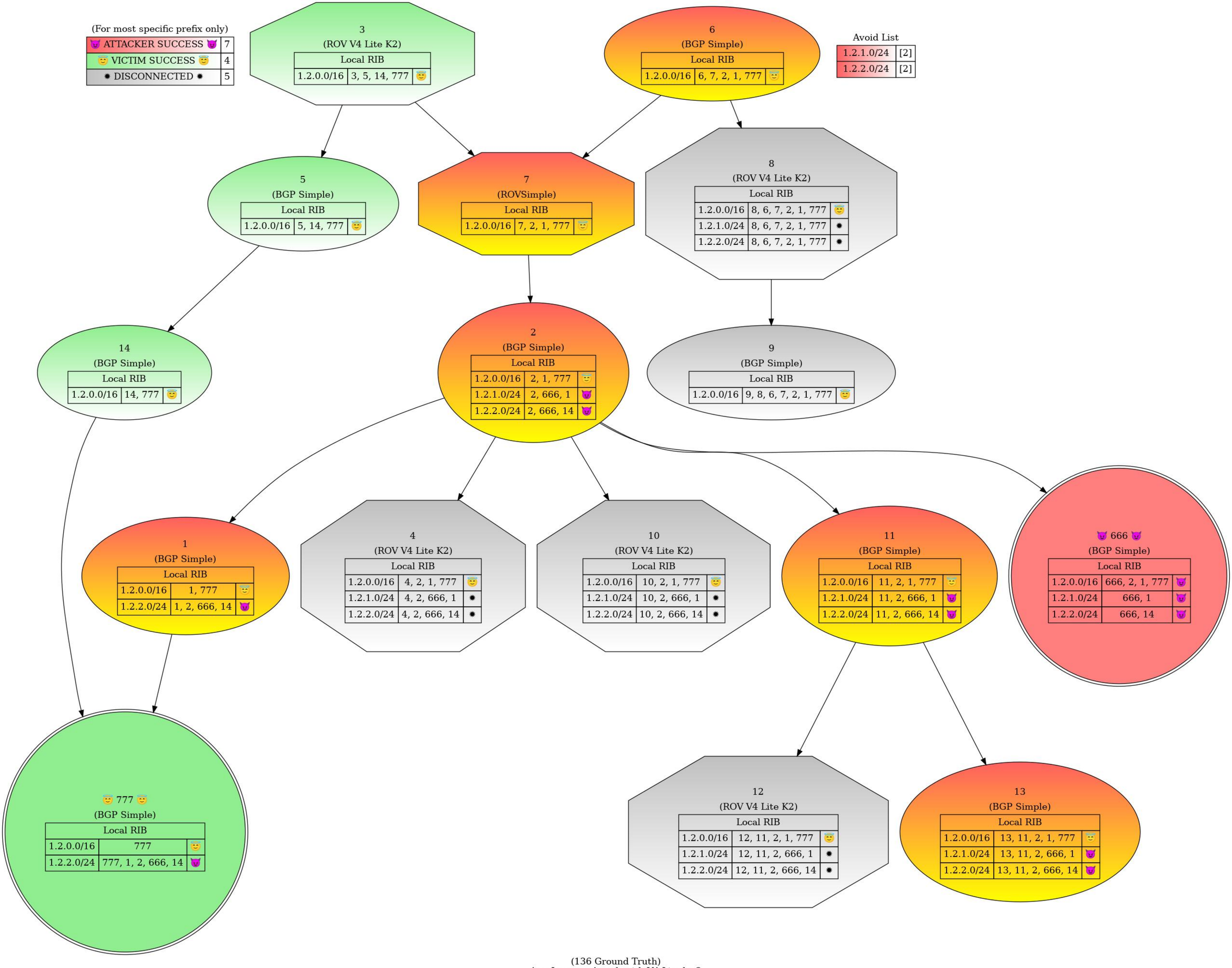

(135 Guess)
AutoImmune Attack with V4 Lite k=1
Traceback for 1.2.2.0/24



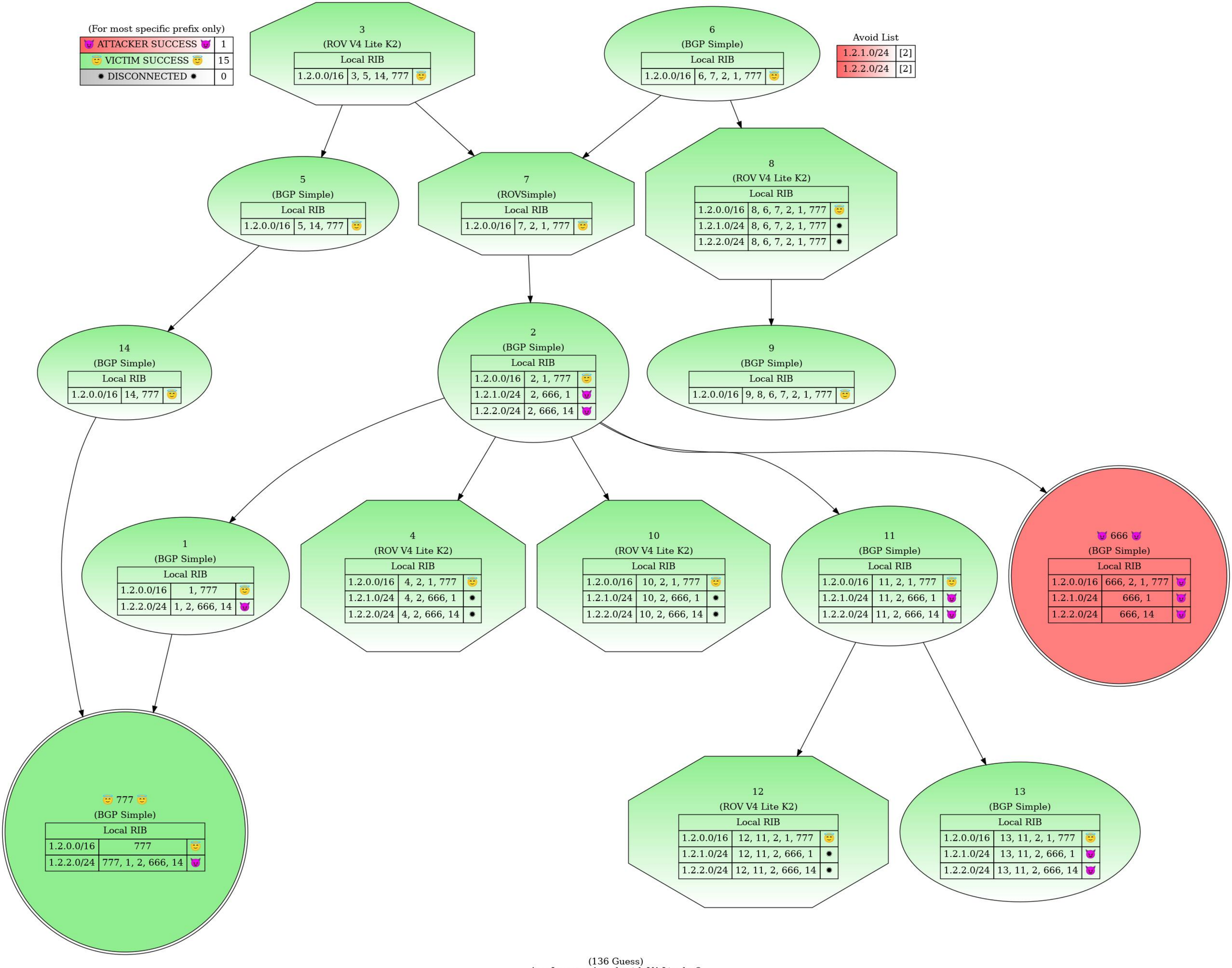

(136 Ground Truth)
AutoImmune Attack with V4 Lite k=2
Traceback for 1.2.0.0/16



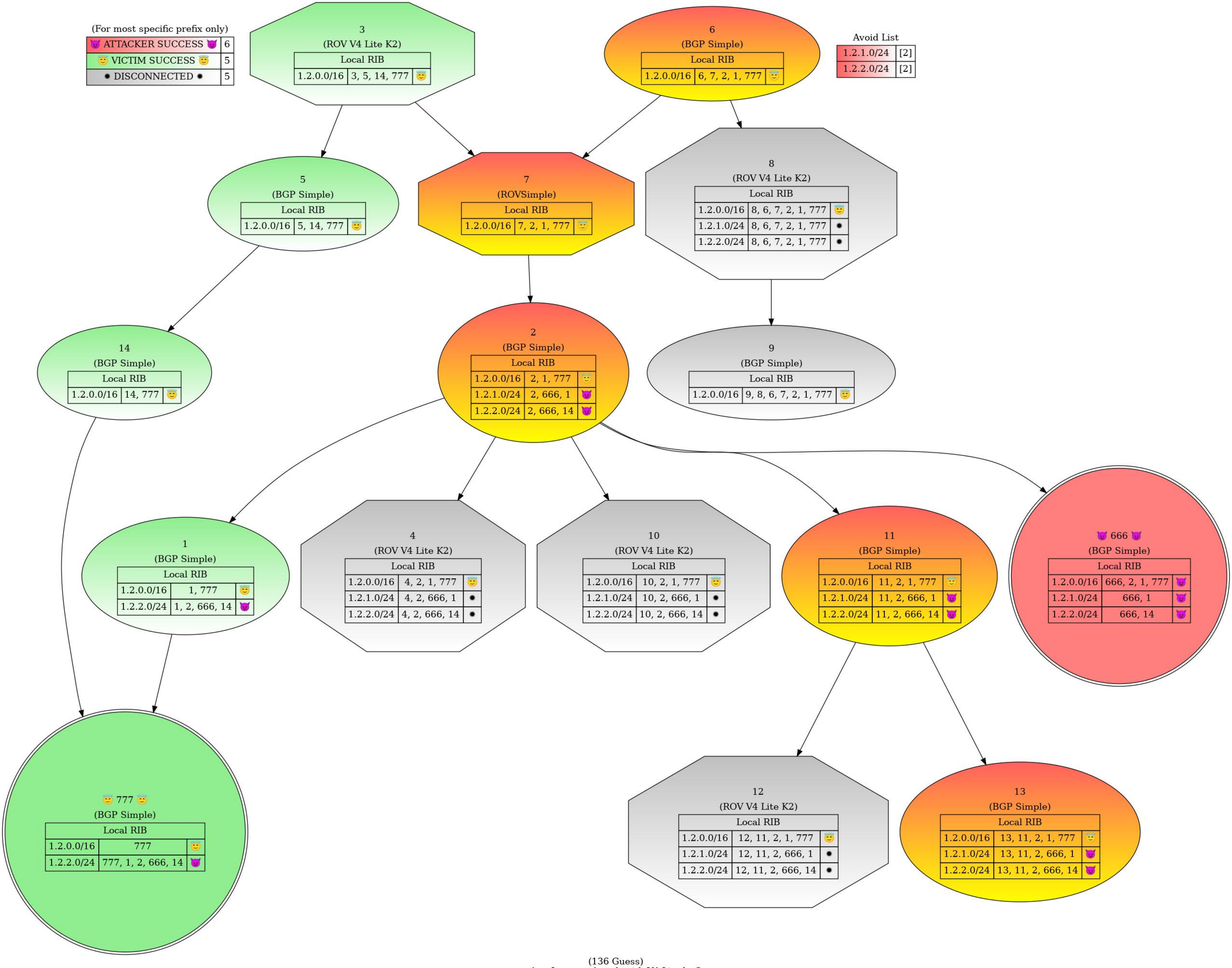

(136 Ground Truth)
AutoImmune Attack with V4 Lite k=2
Traceback for 1.2.1.0/24



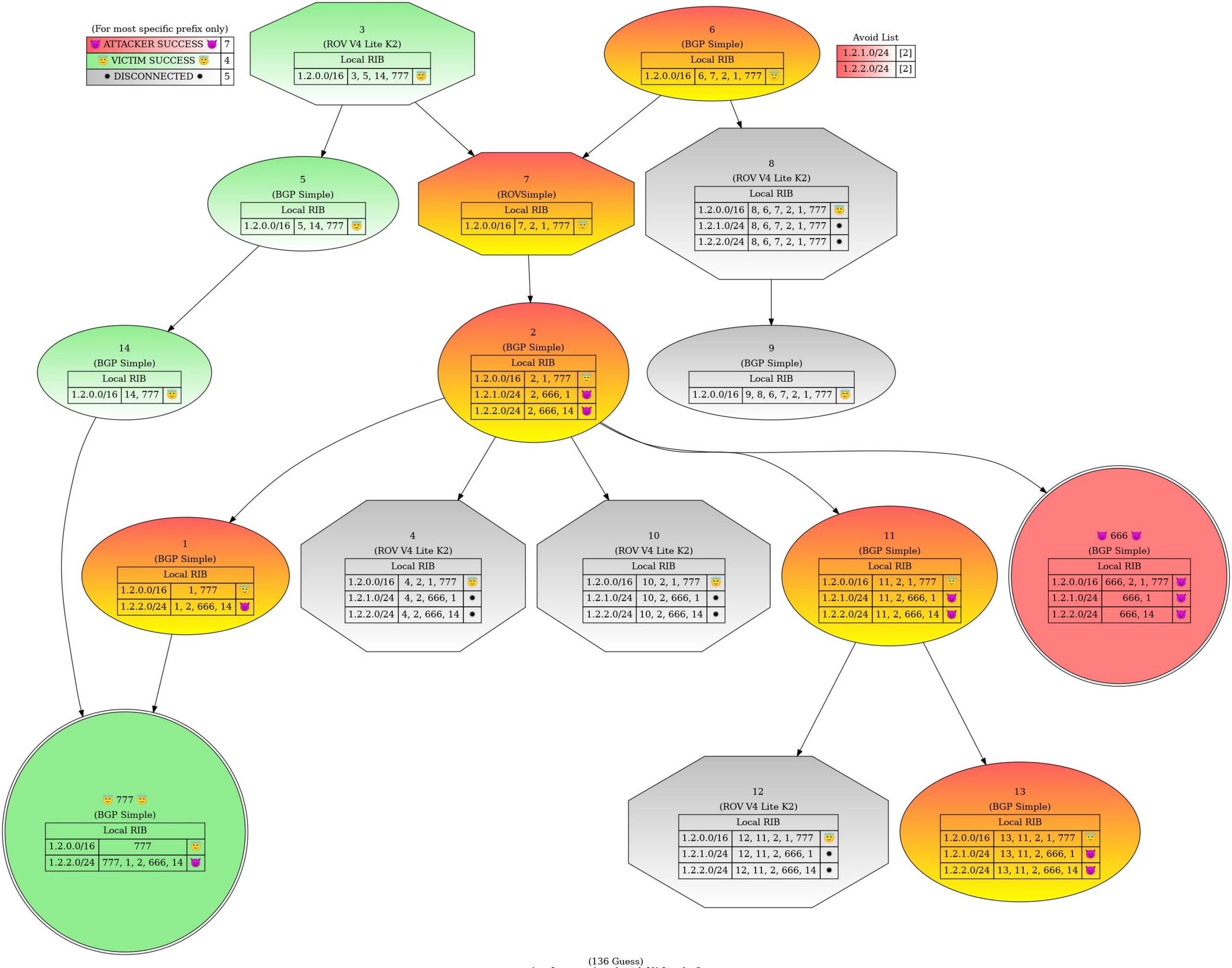

(136 Ground Truth)
AutoImmune Attack with V4 Lite k=2
Traceback for 1.2.2.0/24



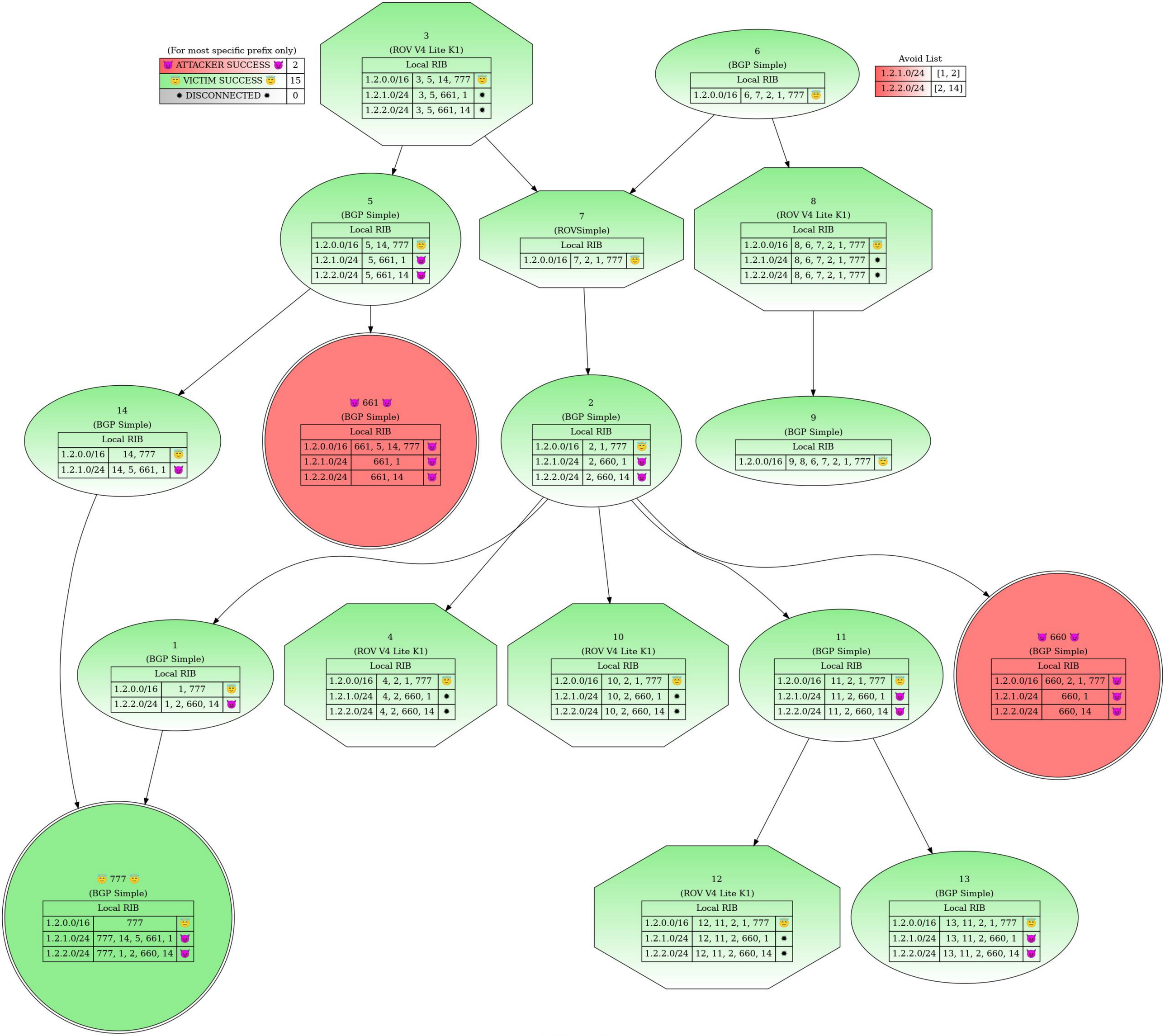

(136 Guess)
AutoImmune Attack with V4 Lite k=2
Traceback for 1.2.0.0/16



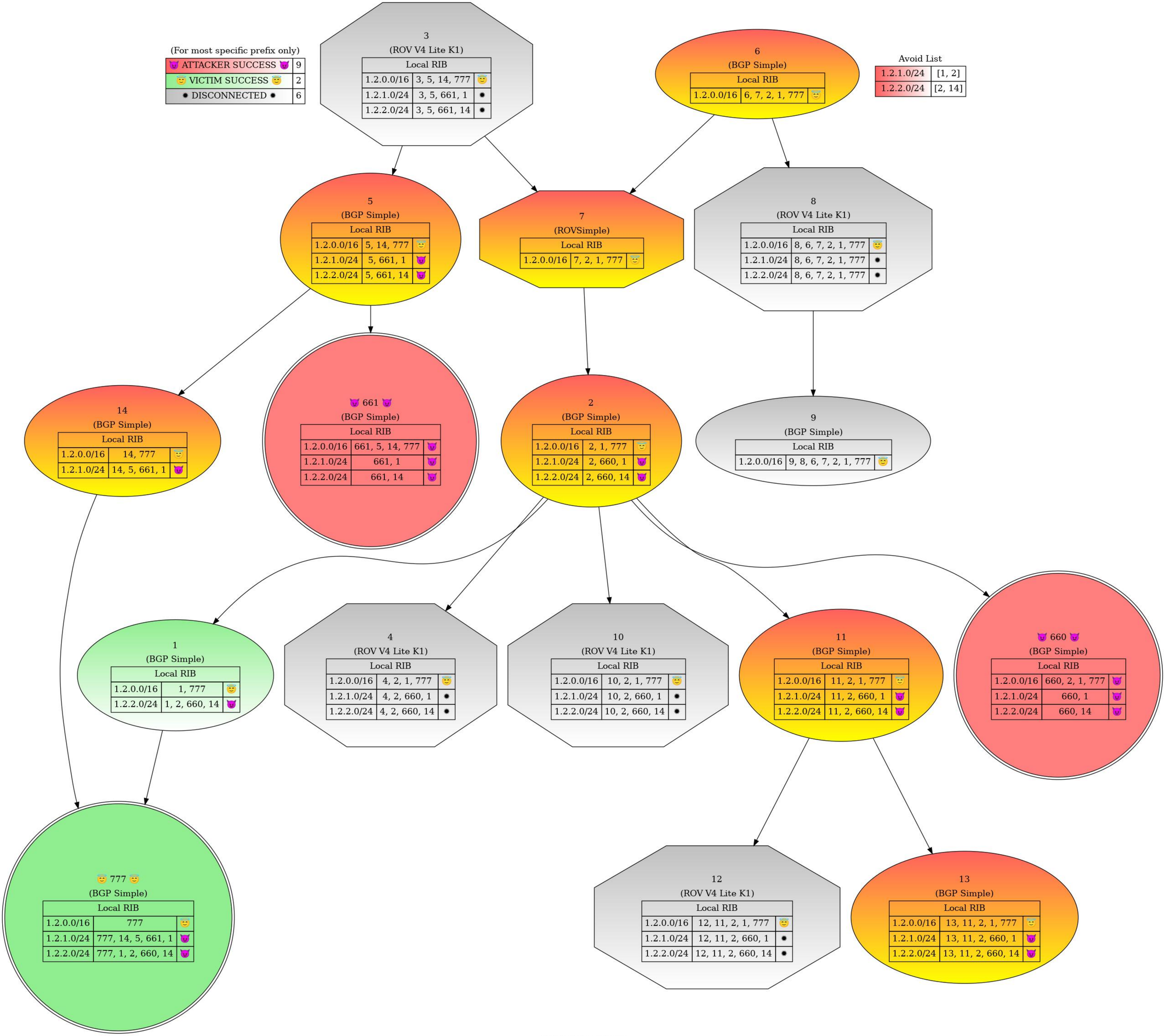

(136 Guess)
AutoImmune Attack with V4 Lite k=2
Traceback for 1.2.1.0/24



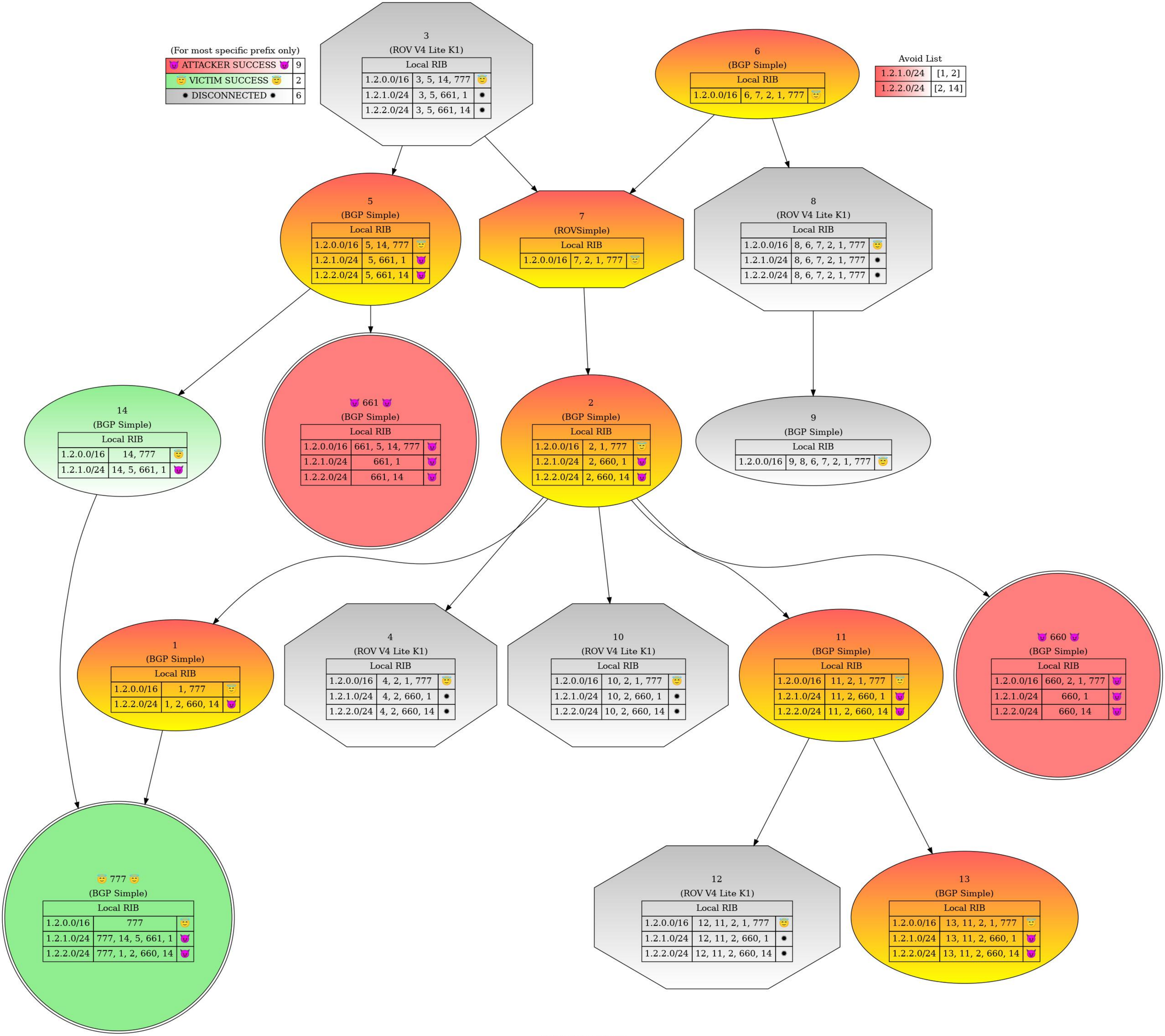

(136 Guess)
AutoImmune Attack with V4 Lite k=2
Traceback for 1.2.2.0/24



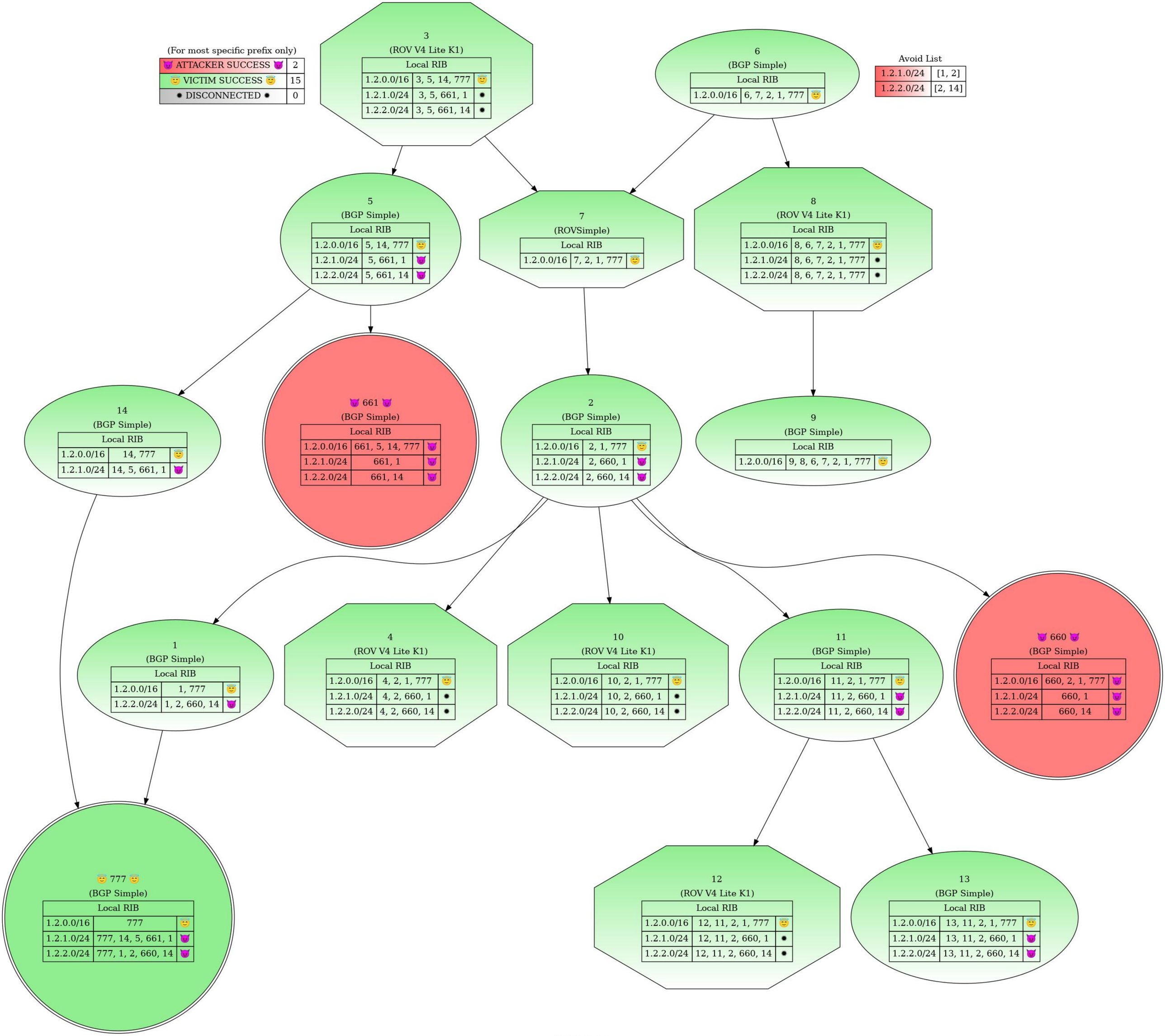

(137 Ground Truth)
AutoImmune Attack with V4 Lite k=1
Traceback for 1.2.0.0/16



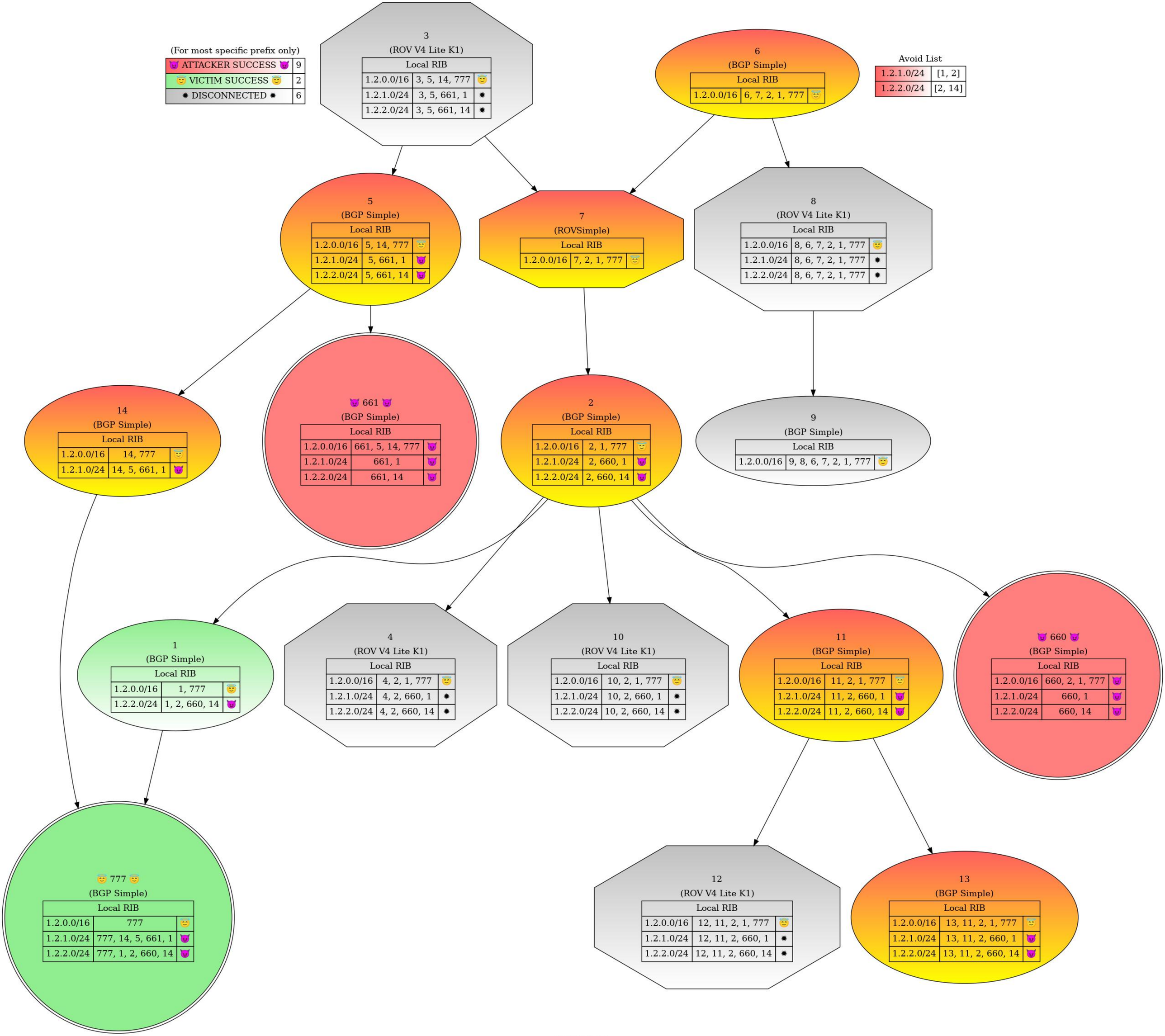

(137 Ground Truth)
AutoImmune Attack with V4 Lite k=1
Traceback for 1.2.1.0/24



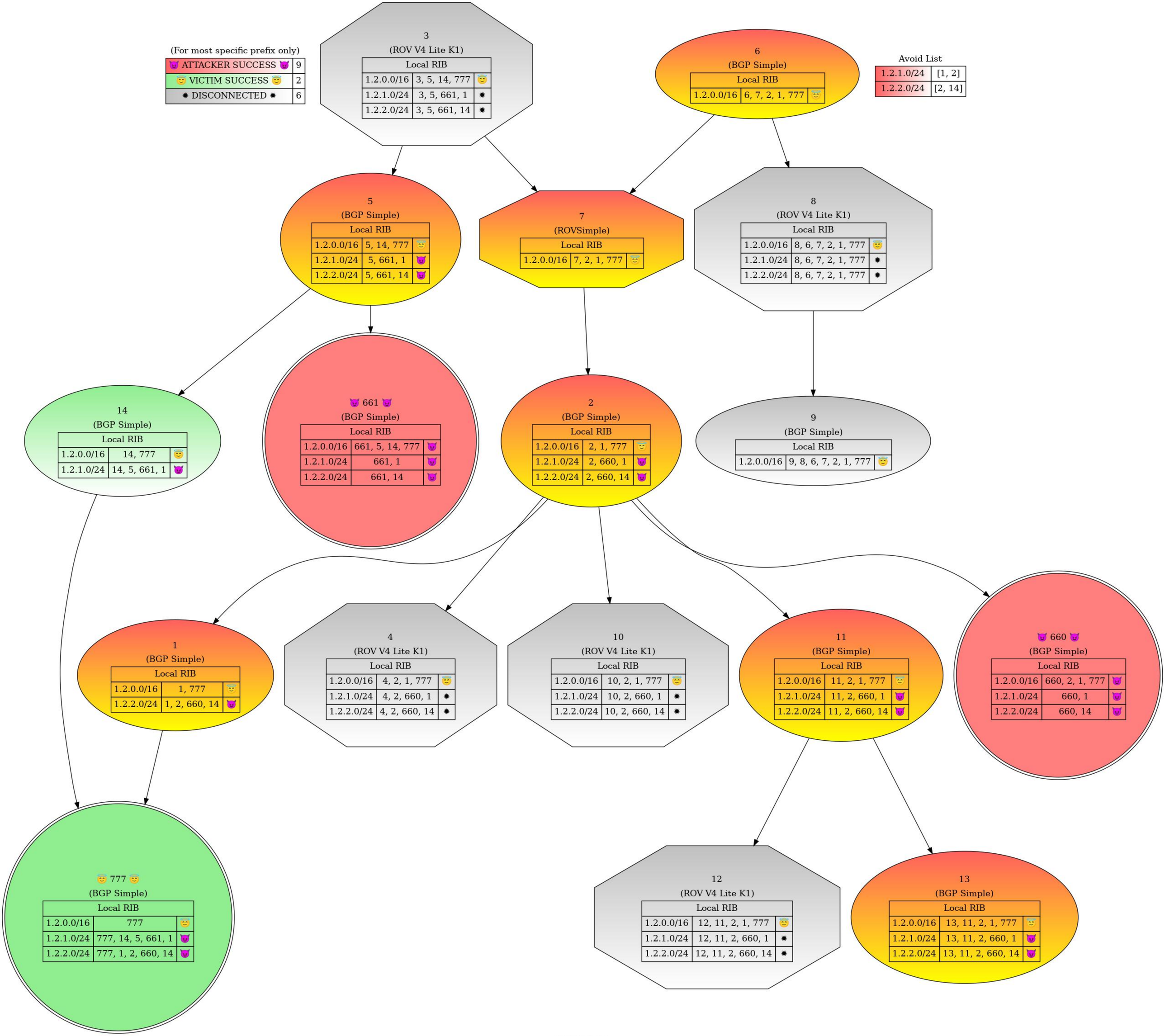

(137 Ground Truth)
AutoImmune Attack with V4 Lite k=1
Traceback for 1.2.2.0/24



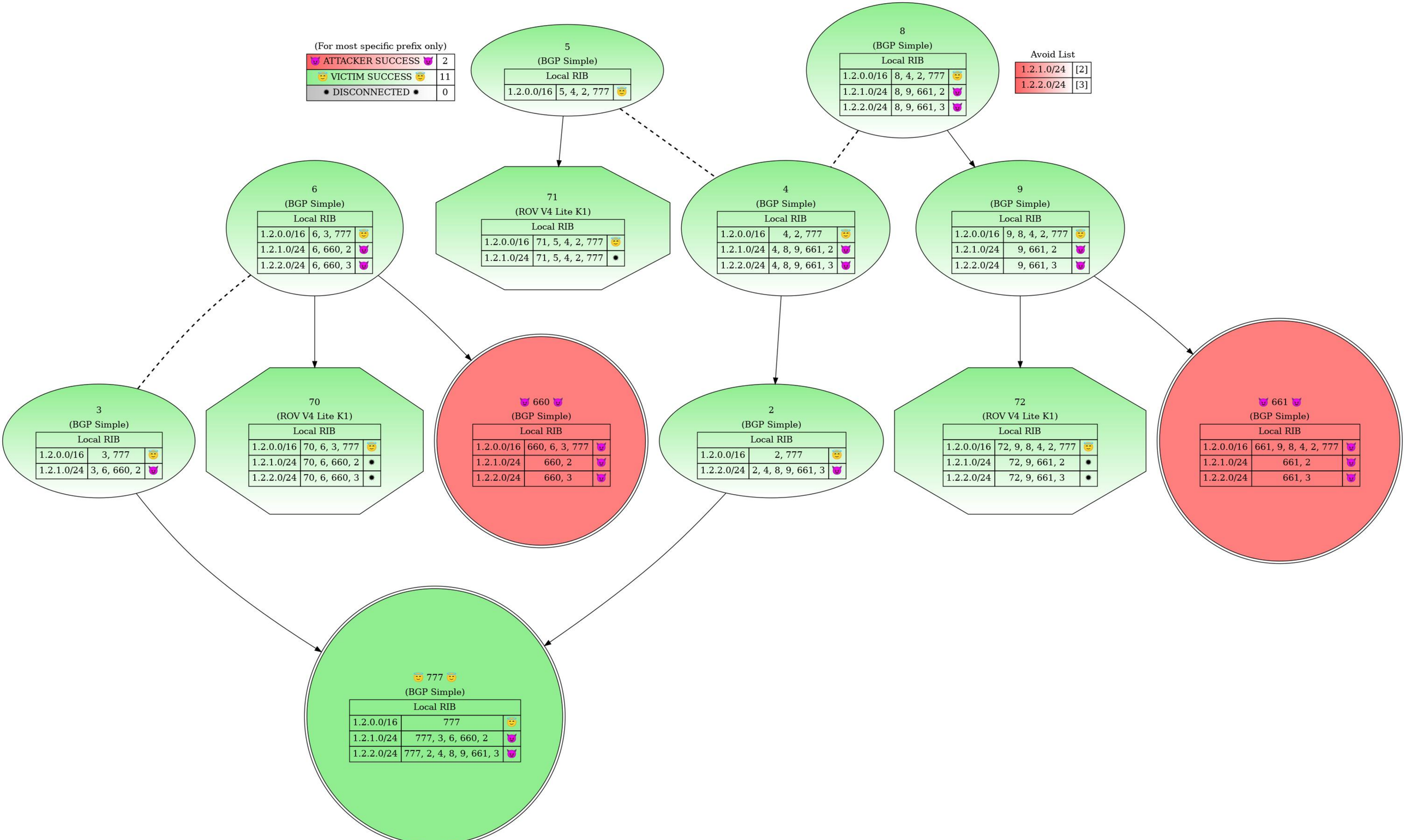

(137 Guess)
AutoImmune Attack with V4 Lite k=1
Traceback for 1.2.0.0/16



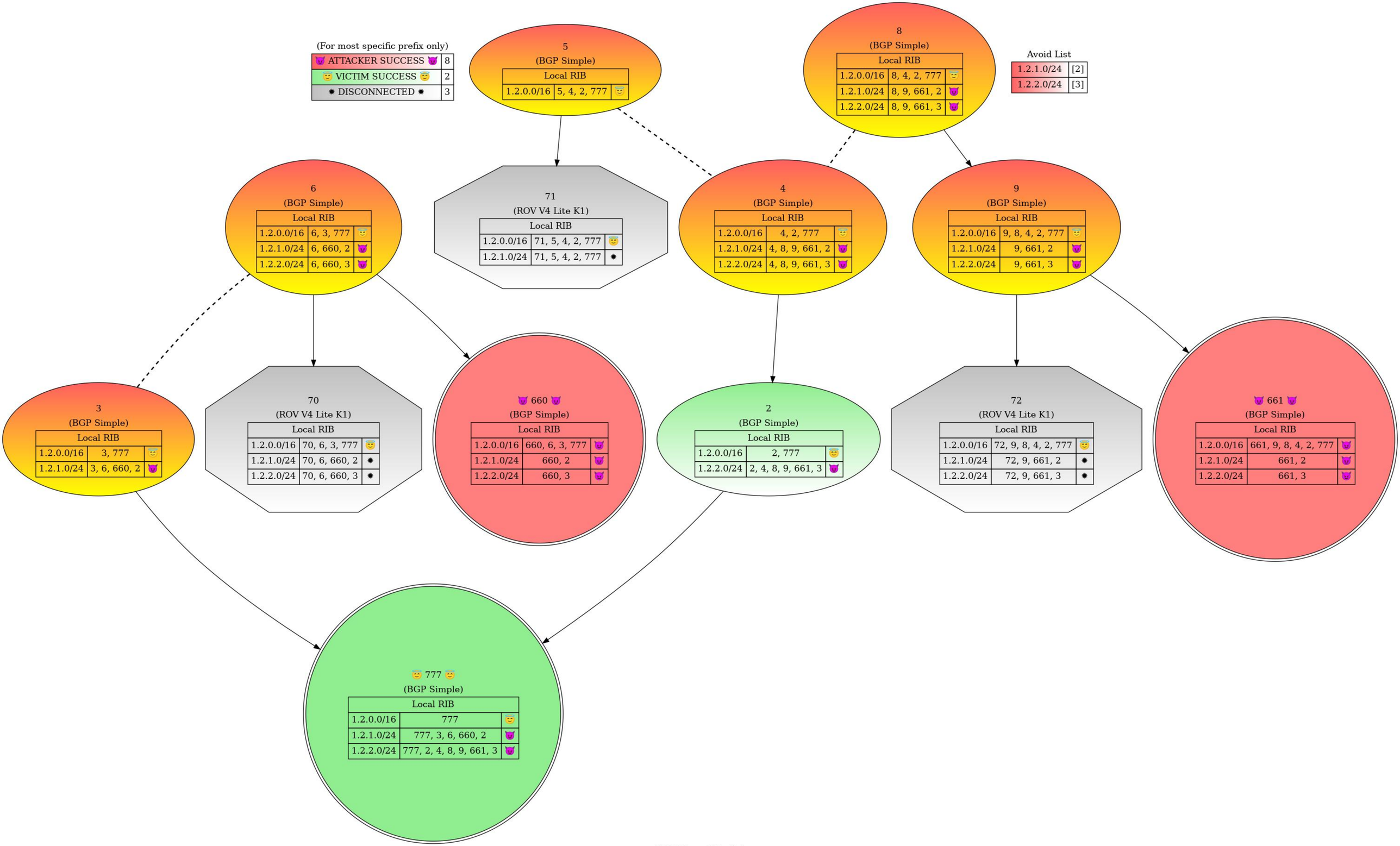

(137 Guess)
AutoImmune Attack with V4 Lite k=1
Traceback for 1.2.1.0/24



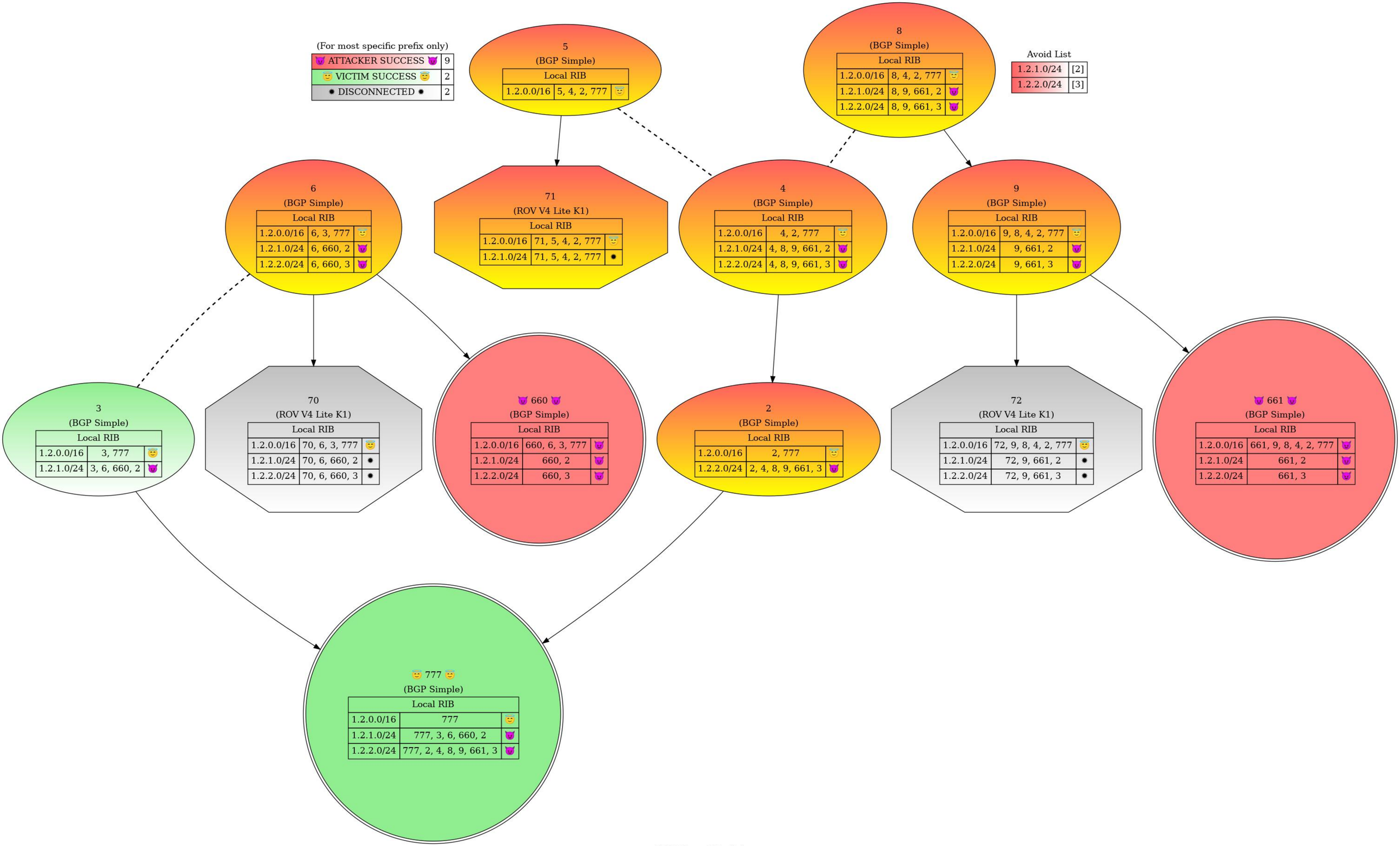

(137 Guess)
AutoImmune Attack with V4 Lite k=1
Traceback for 1.2.2.0/24



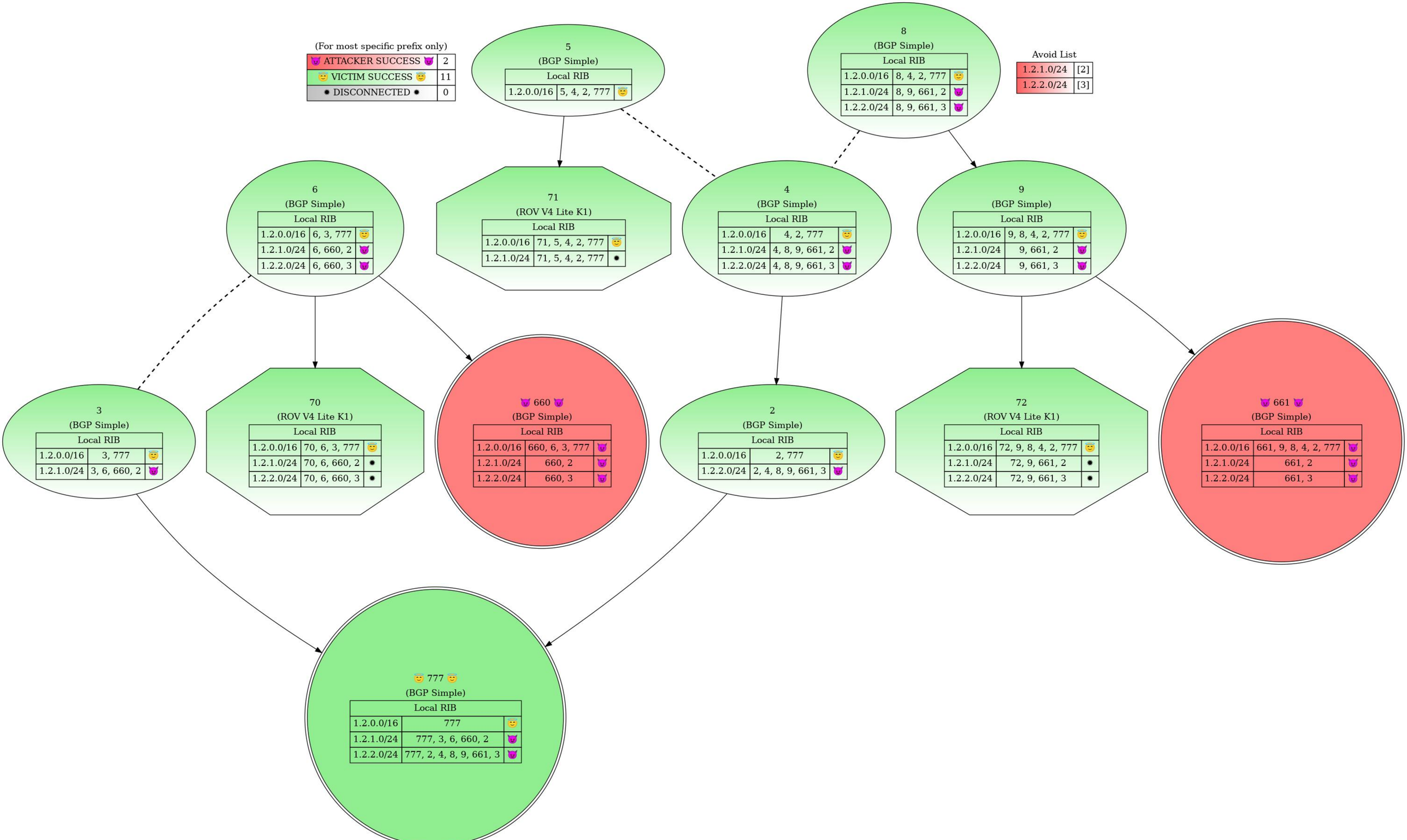

(138 Ground Truth)
AutoImmune Attack with V4 Lite k=1
Traceback for 1.2.0.0/16



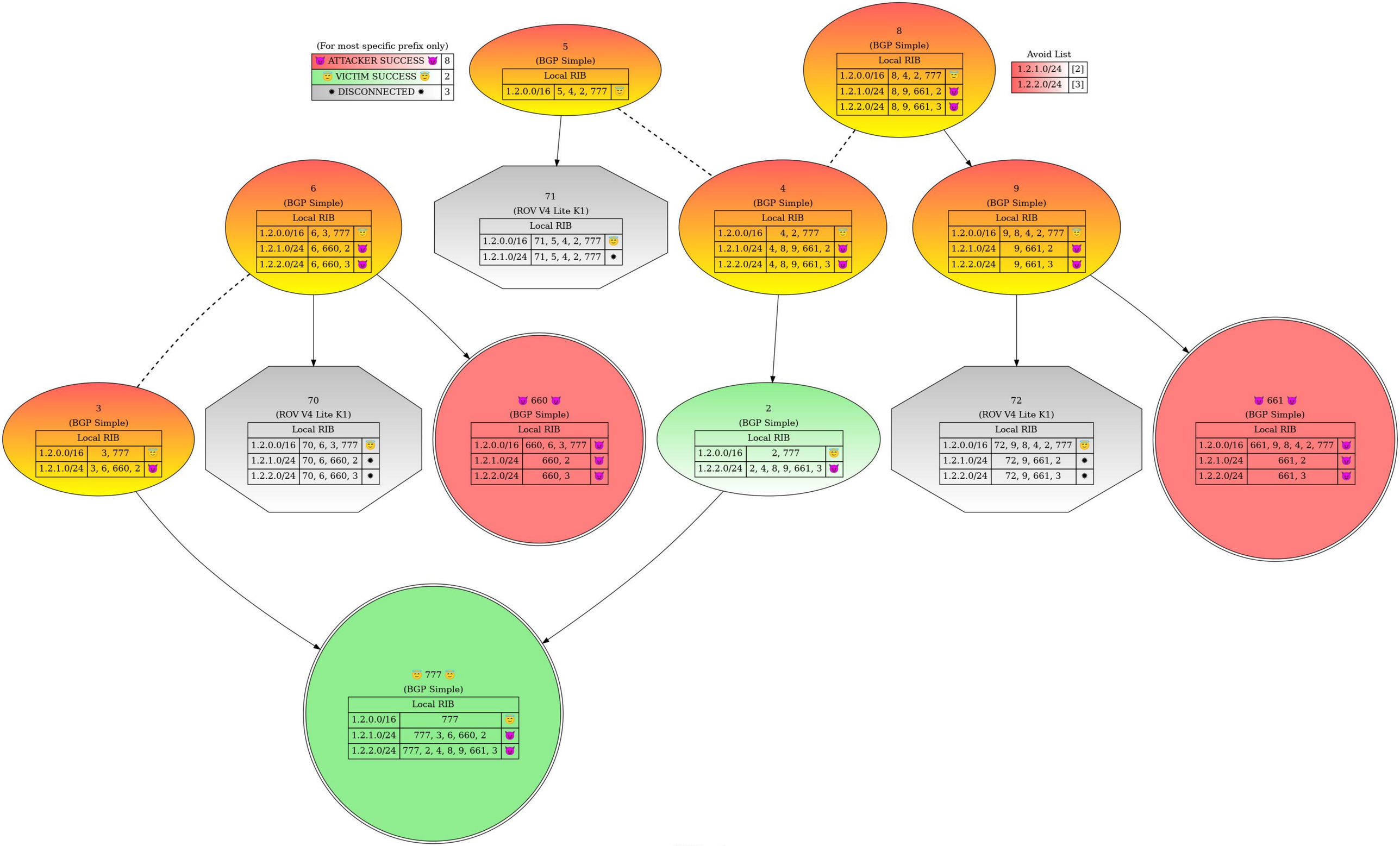

(138 Ground Truth)
AutoImmune Attack with V4 Lite k=1
Traceback for 1.2.1.0/24



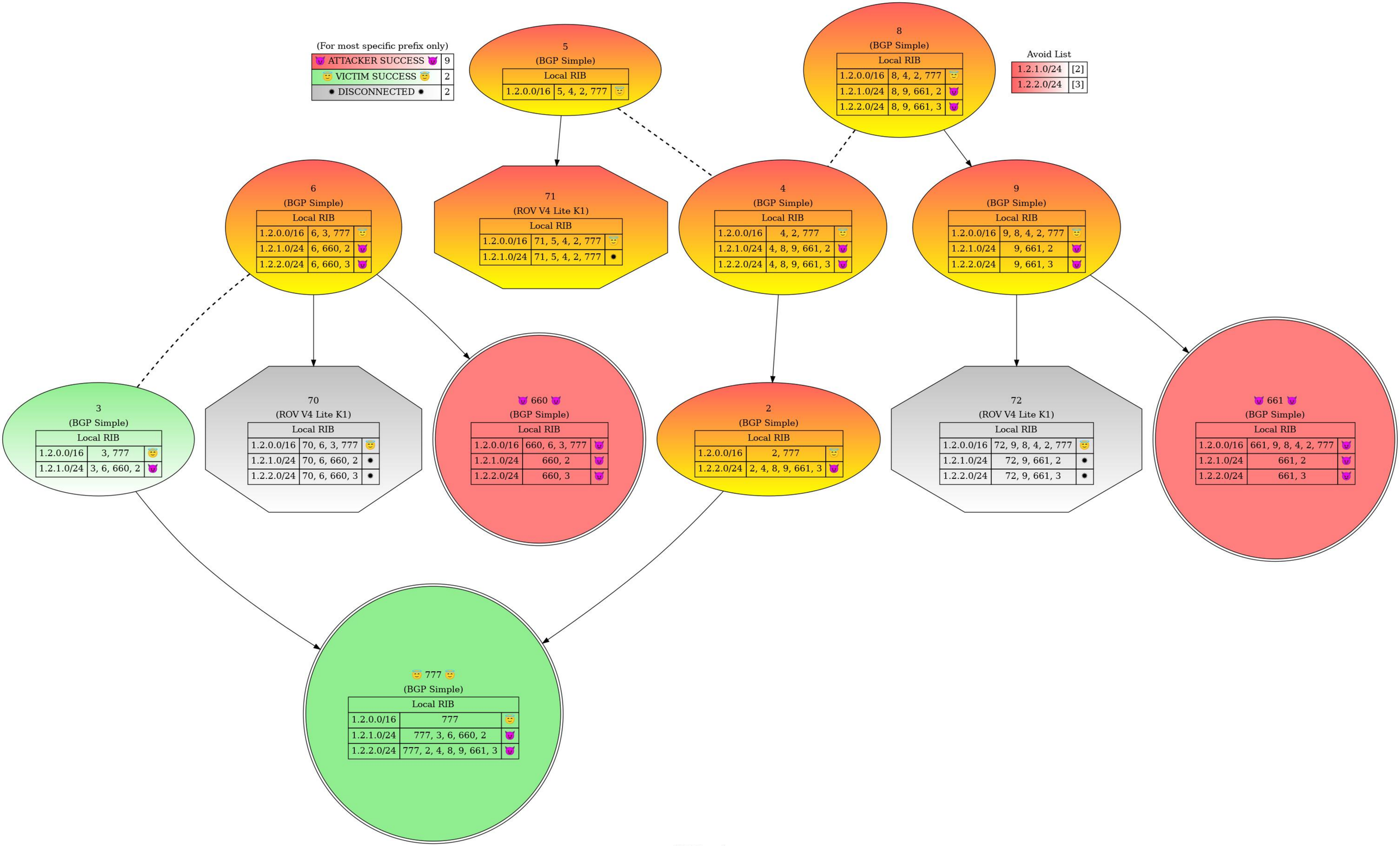

(138 Ground Truth)
AutoImmune Attack with V4 Lite k=1
Traceback for 1.2.2.0/24



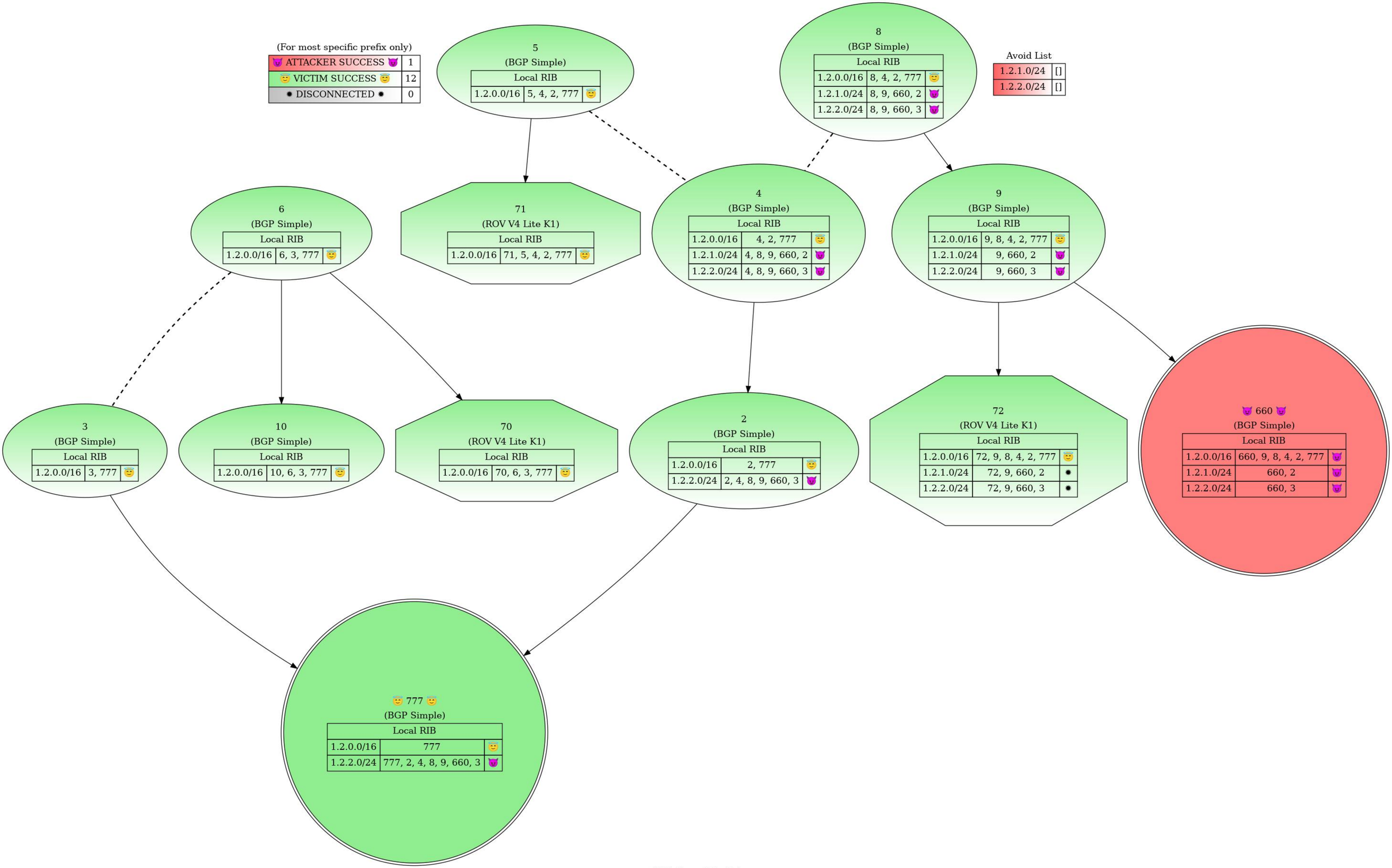

(138 Guess)
AutoImmune Attack with V4 Lite k=1
Traceback for 1.2.0.0/16



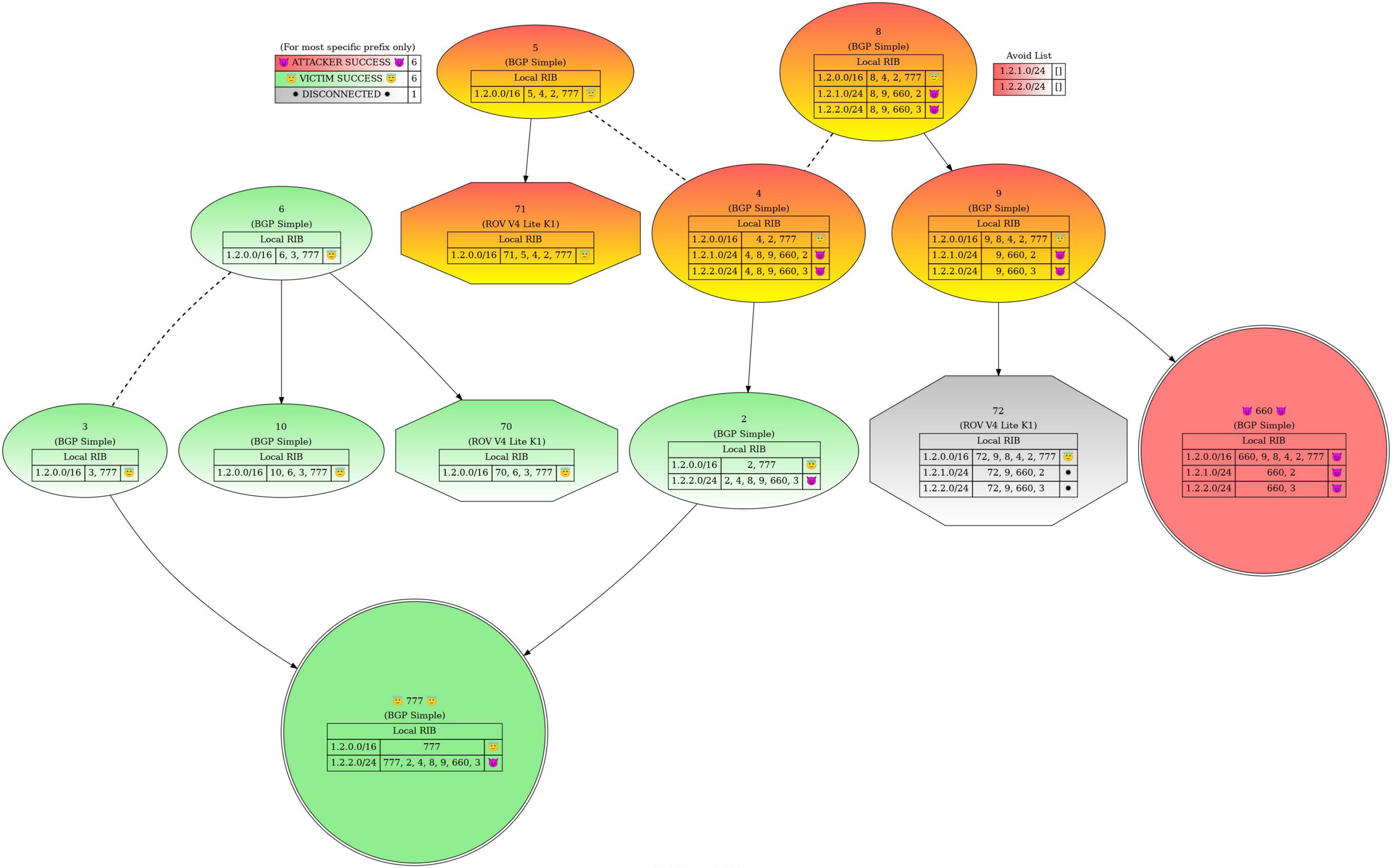

(138 Guess)
AutoImmune Attack with V4 Lite k=1
Traceback for 1.2.1.0/24



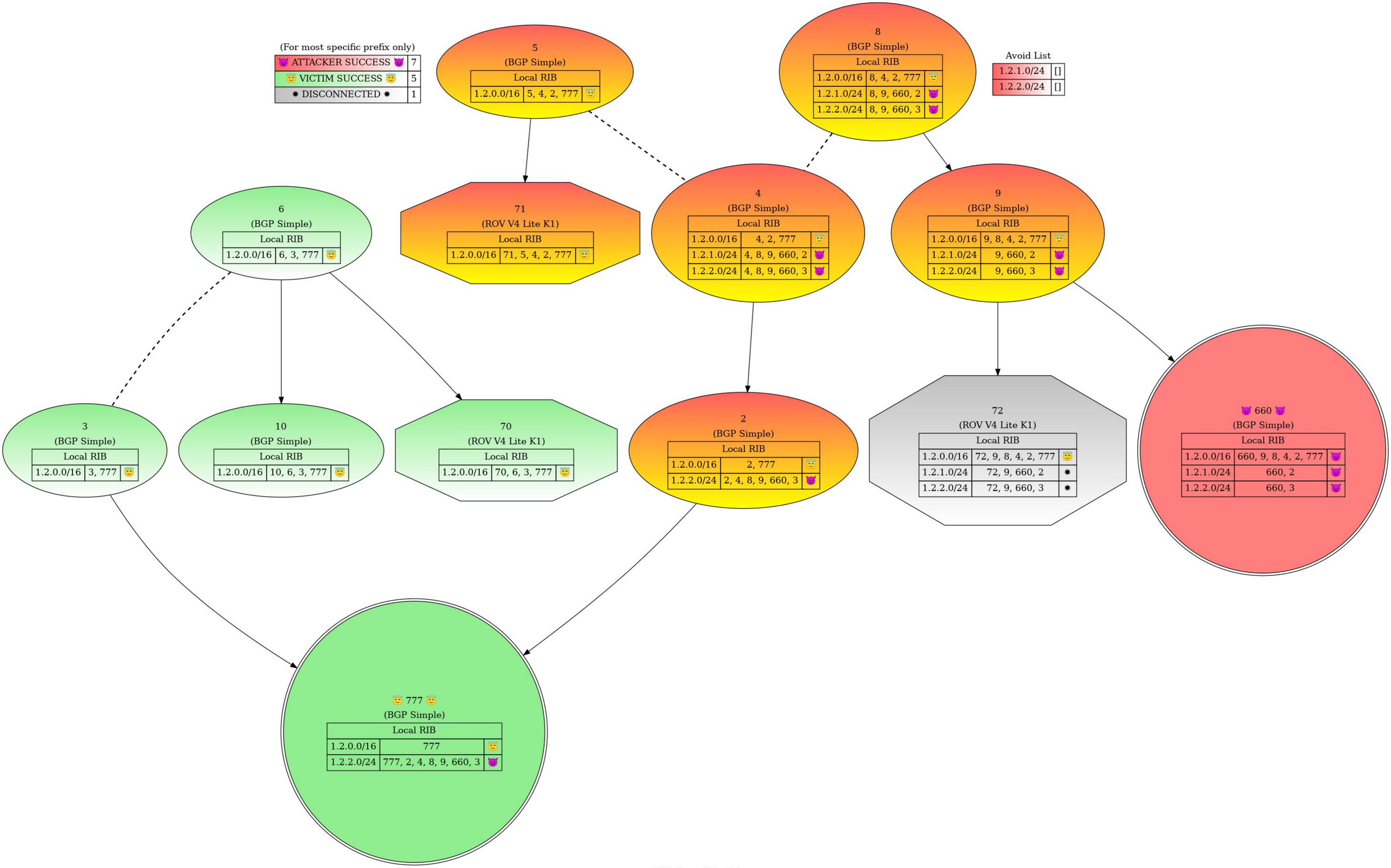

(138 Guess)
AutoImmune Attack with V4 Lite k=1
Traceback for 1.2.2.0/24



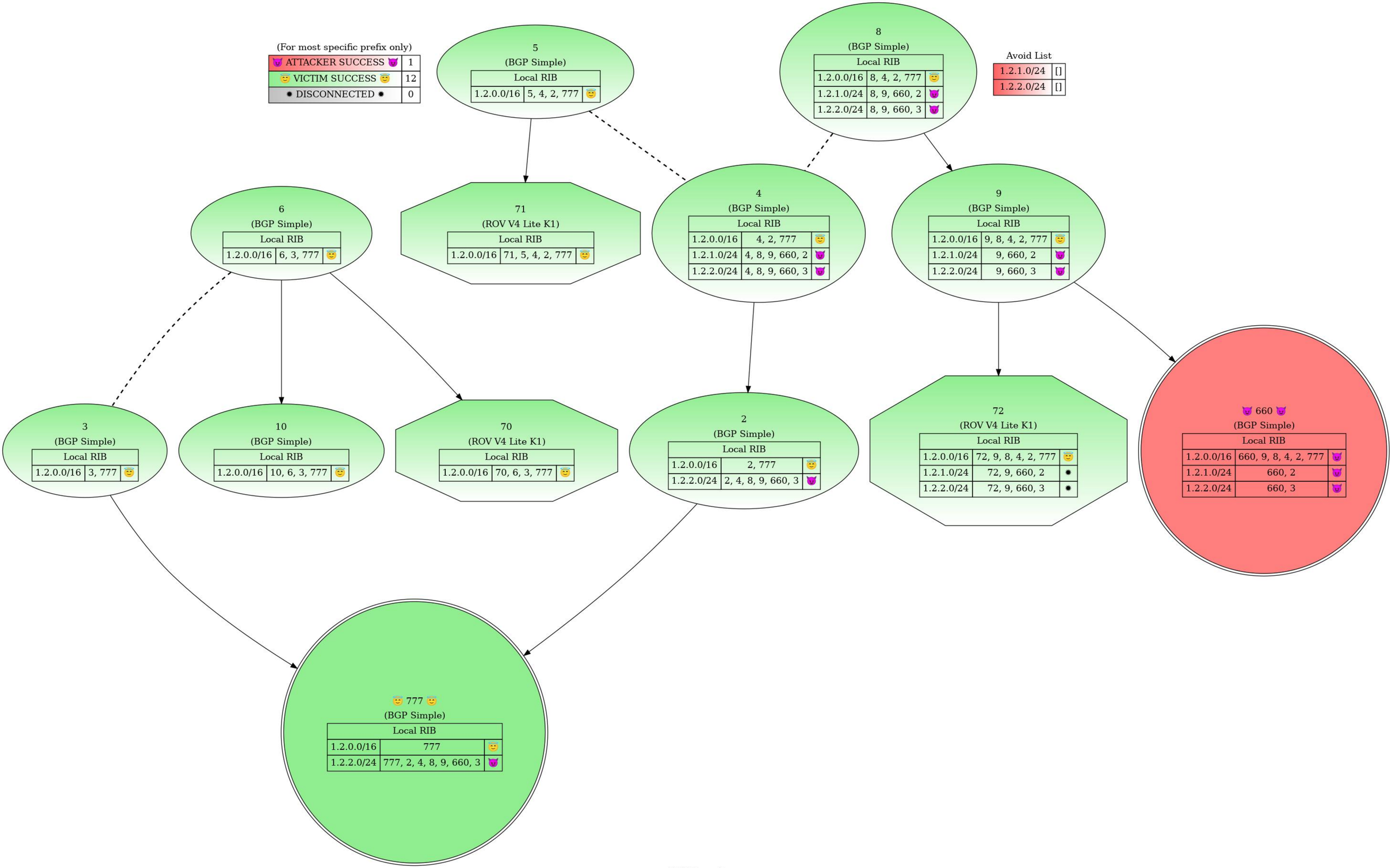

(139 Ground Truth)
AutoImmune Attack with V4 Lite k=1
Traceback for 1.2.0.0/16



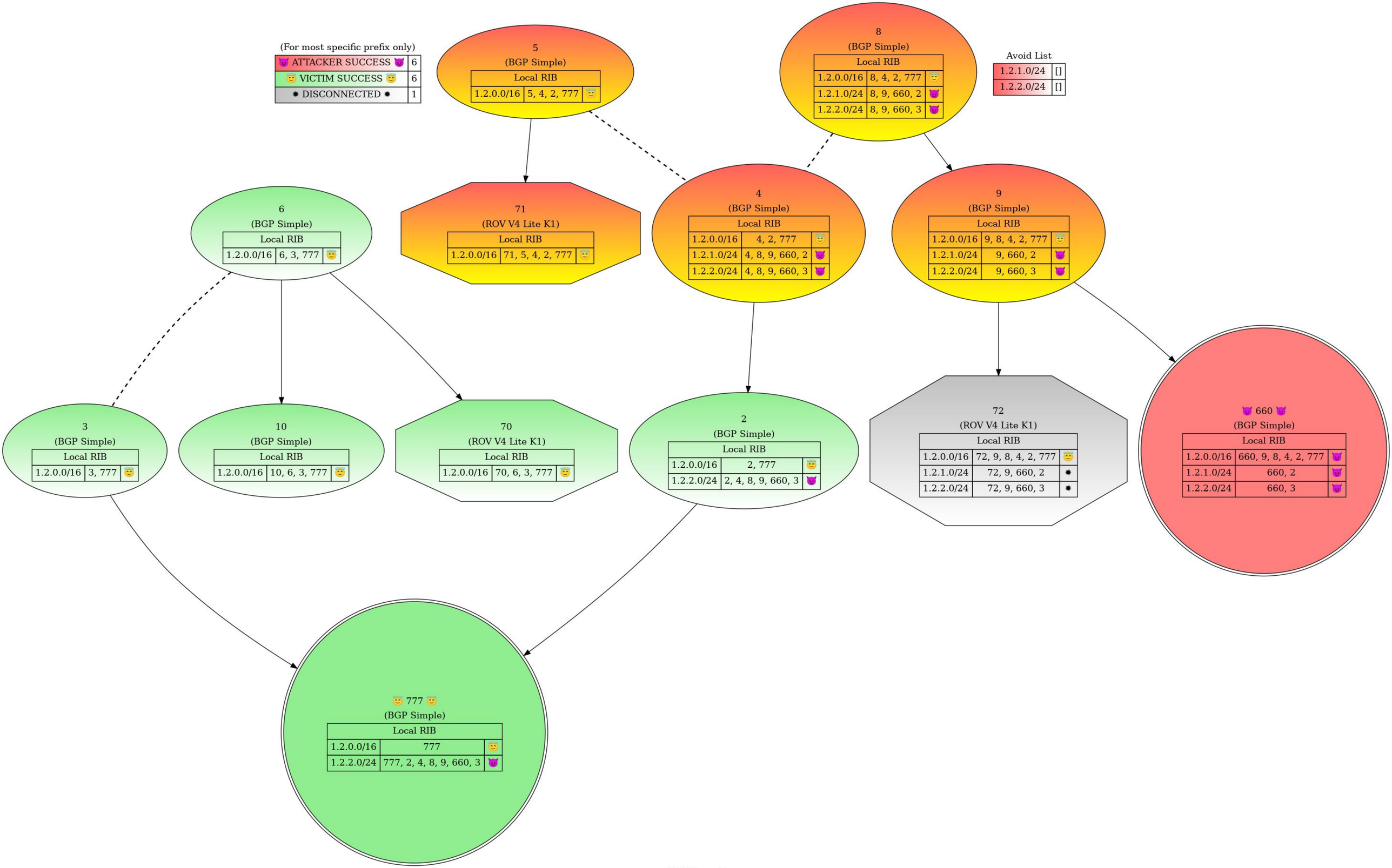

(139 Ground Truth)
AutoImmune Attack with V4 Lite k=1
Traceback for 1.2.1.0/24



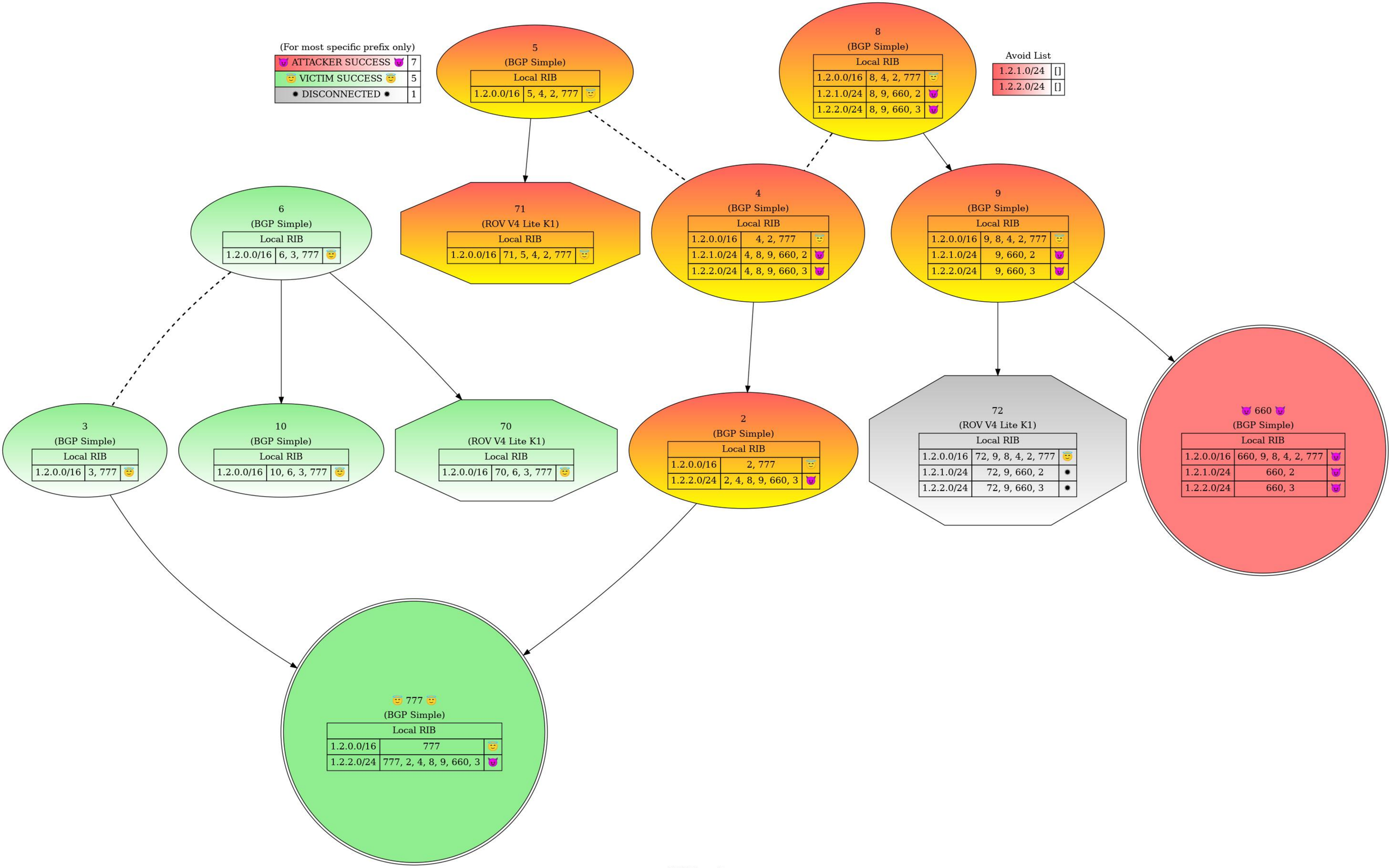

(139 Ground Truth)
AutoImmune Attack with V4 Lite k=1
Traceback for 1.2.2.0/24



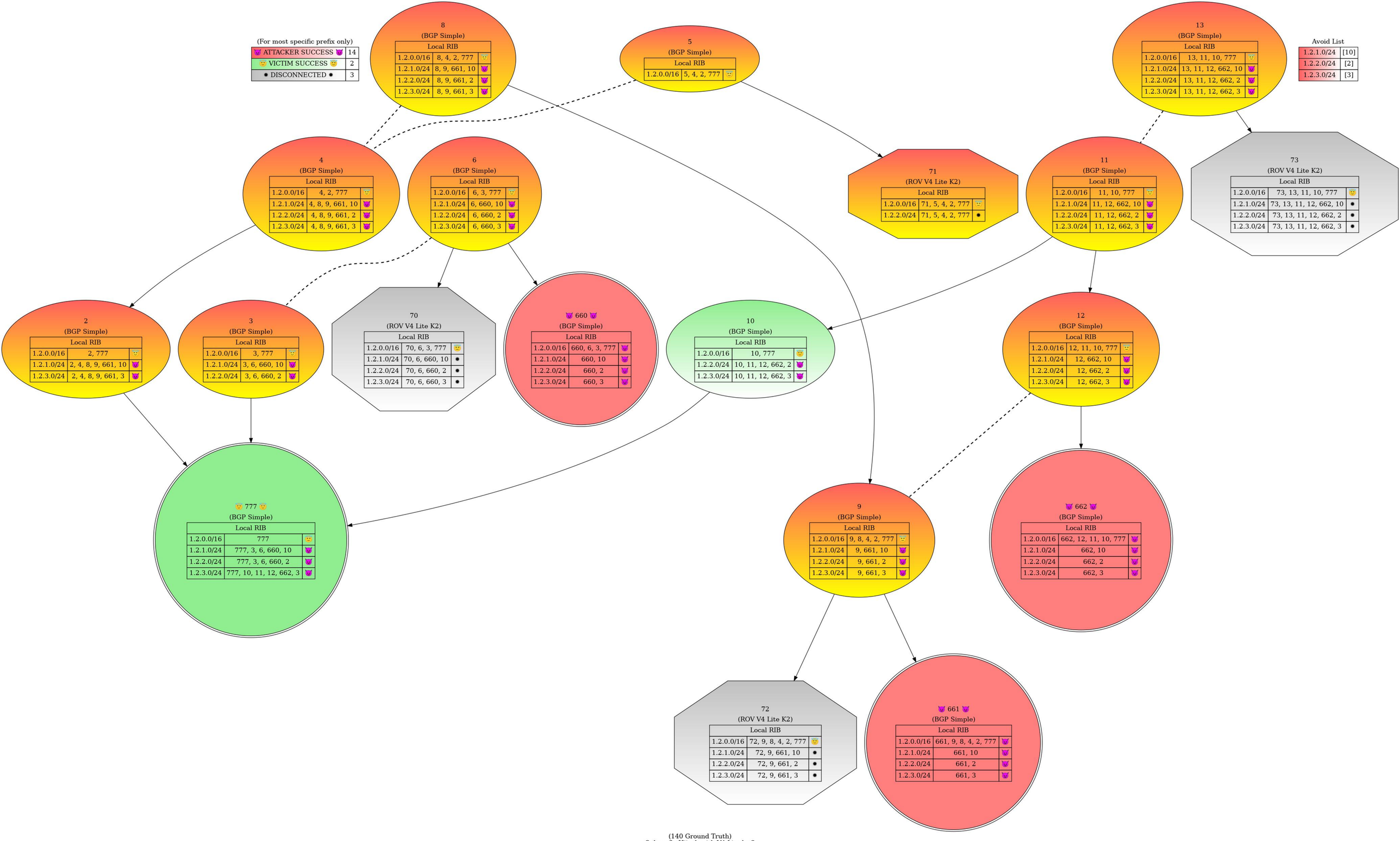

(139 Guess)
AutoImmune Attack with V4 Lite k=1
Traceback for 1.2.0.0/16



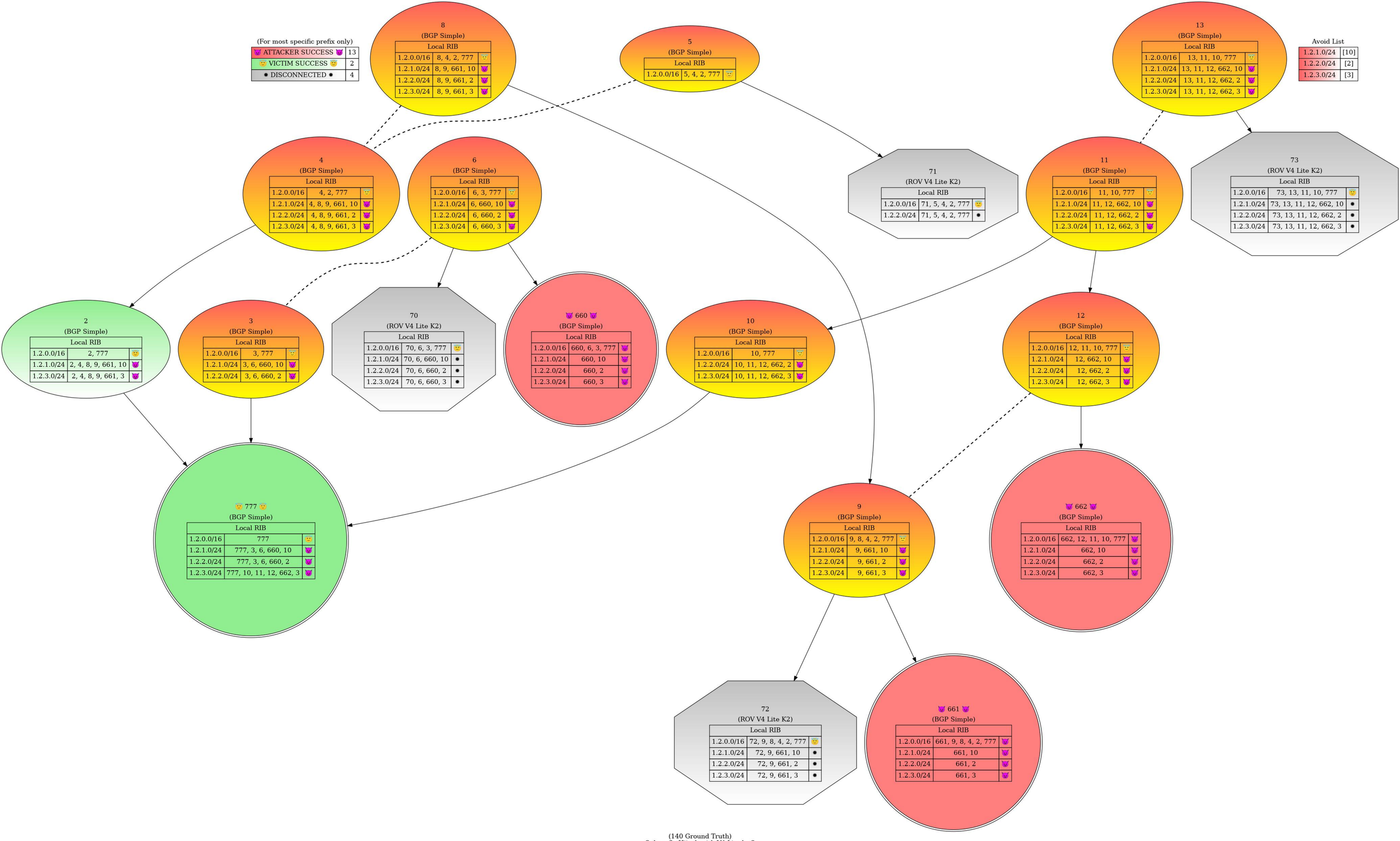

(139 Guess)
AutoImmune Attack with V4 Lite k=1
Traceback for 1.2.1.0/24



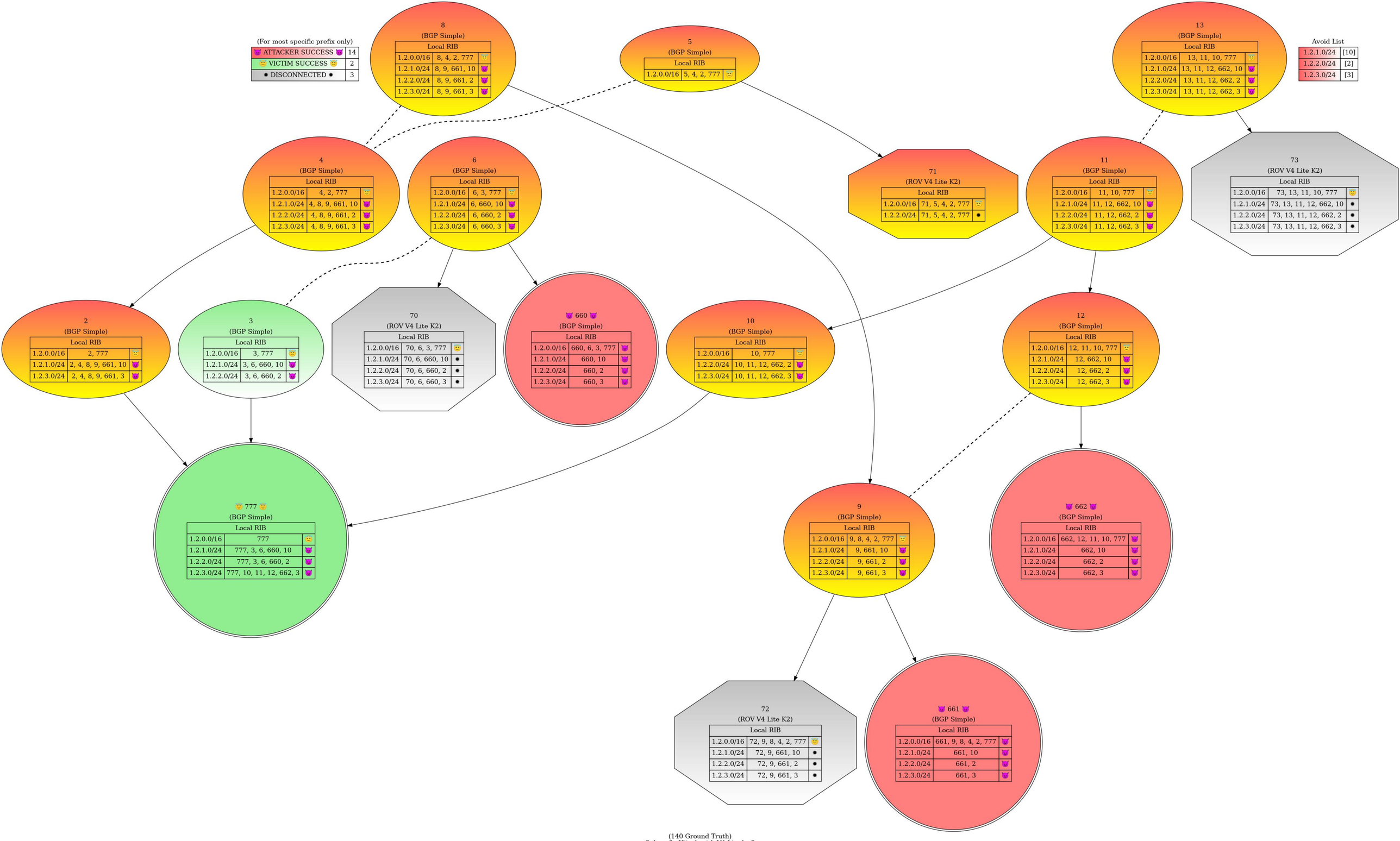

(139 Guess)
AutoImmune Attack with V4 Lite k=1
Traceback for 1.2.2.0/24



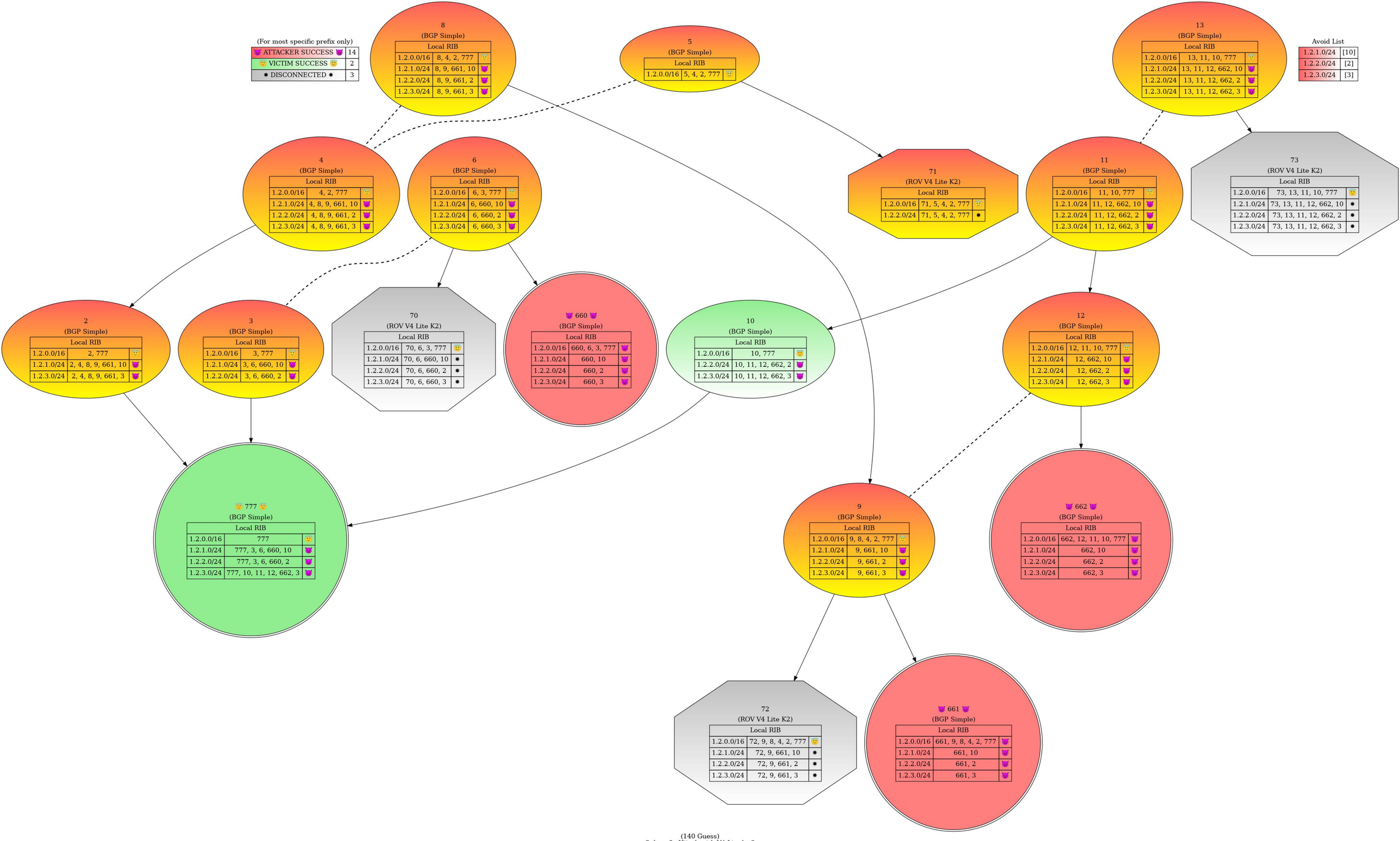

(140 Ground Truth)
Subprefix Hijack with V4 Lite k=2
Traceback for 1.2.1.0/24



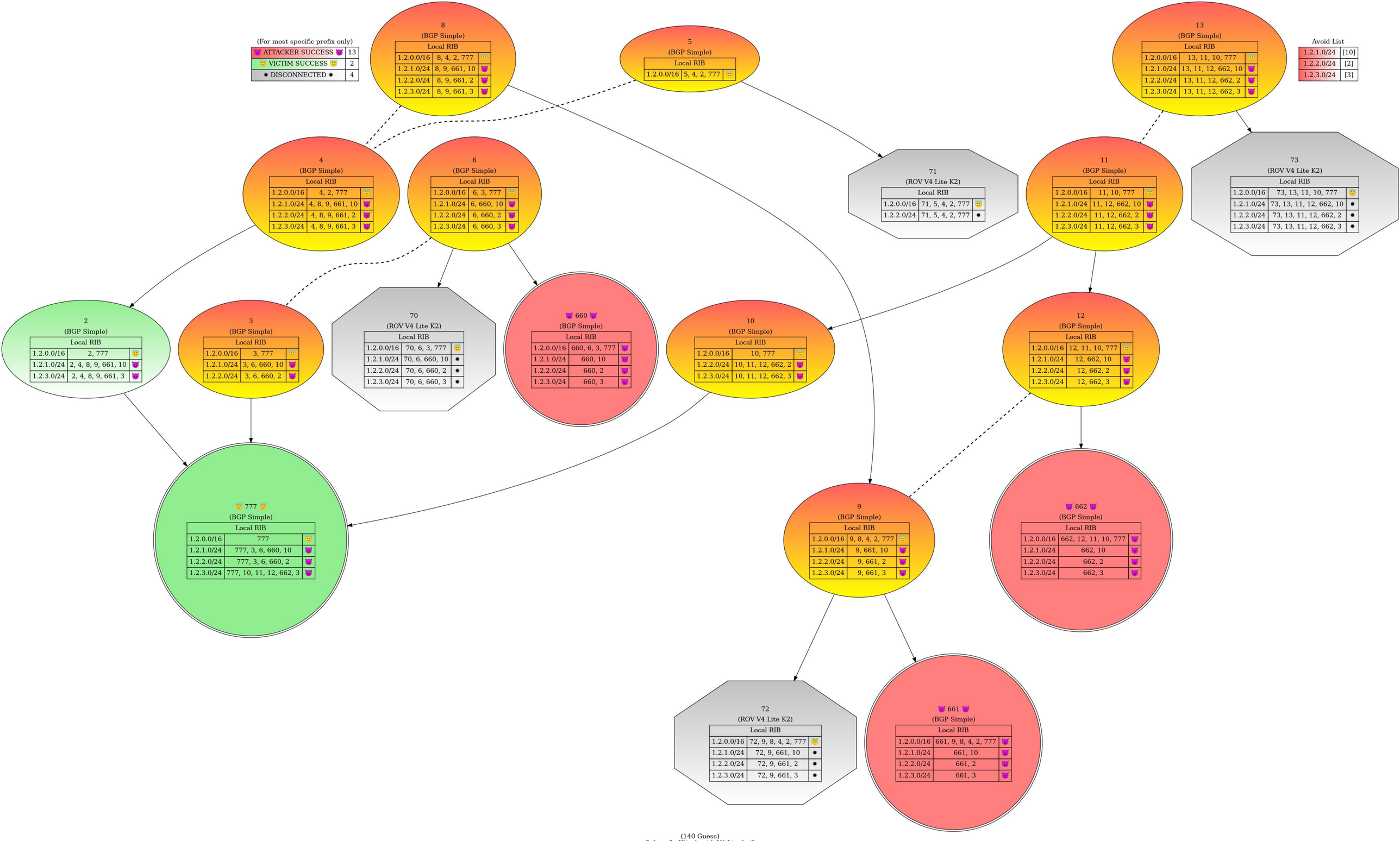

(140 Ground Truth)
Subprefix Hijack with V4 Lite k=2
Traceback for 1.2.2.0/24



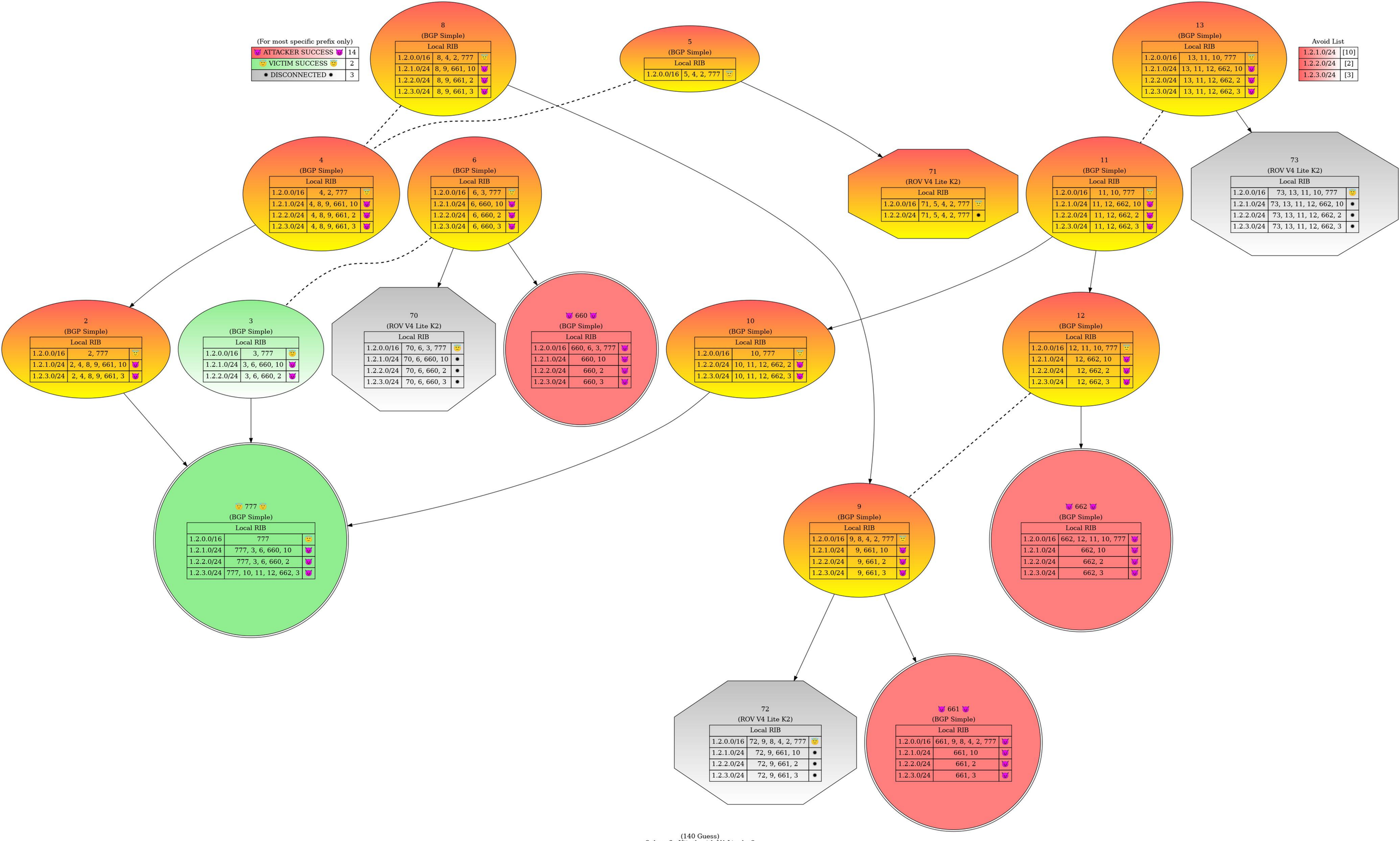

(140 Ground Truth)
Subprefix Hijack with V4 Lite k=2
Traceback for 1.2.3.0/24



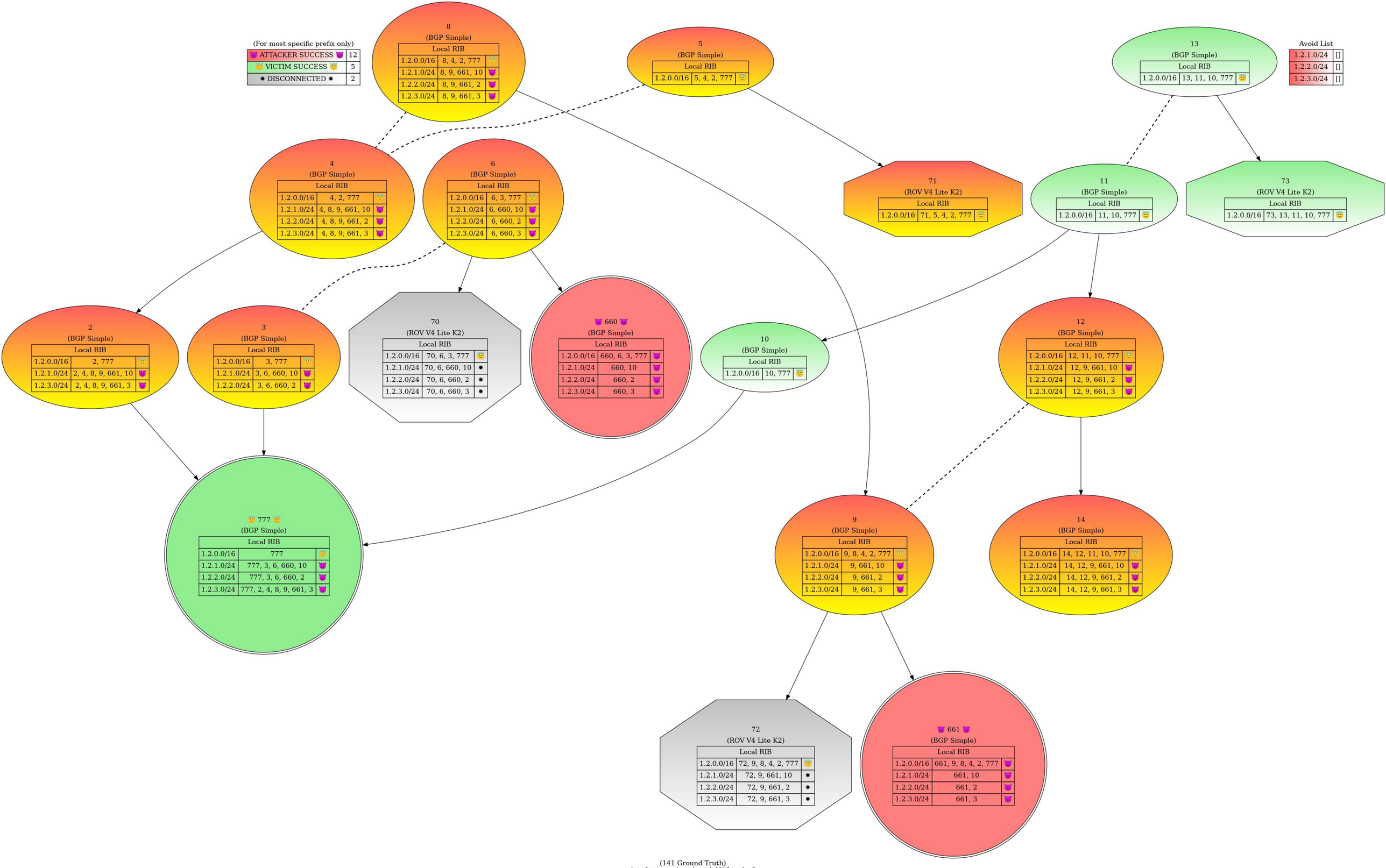

(140 Guess)
Subprefix Hijack with V4 Lite k=2
Traceback for 1.2.1.0/24



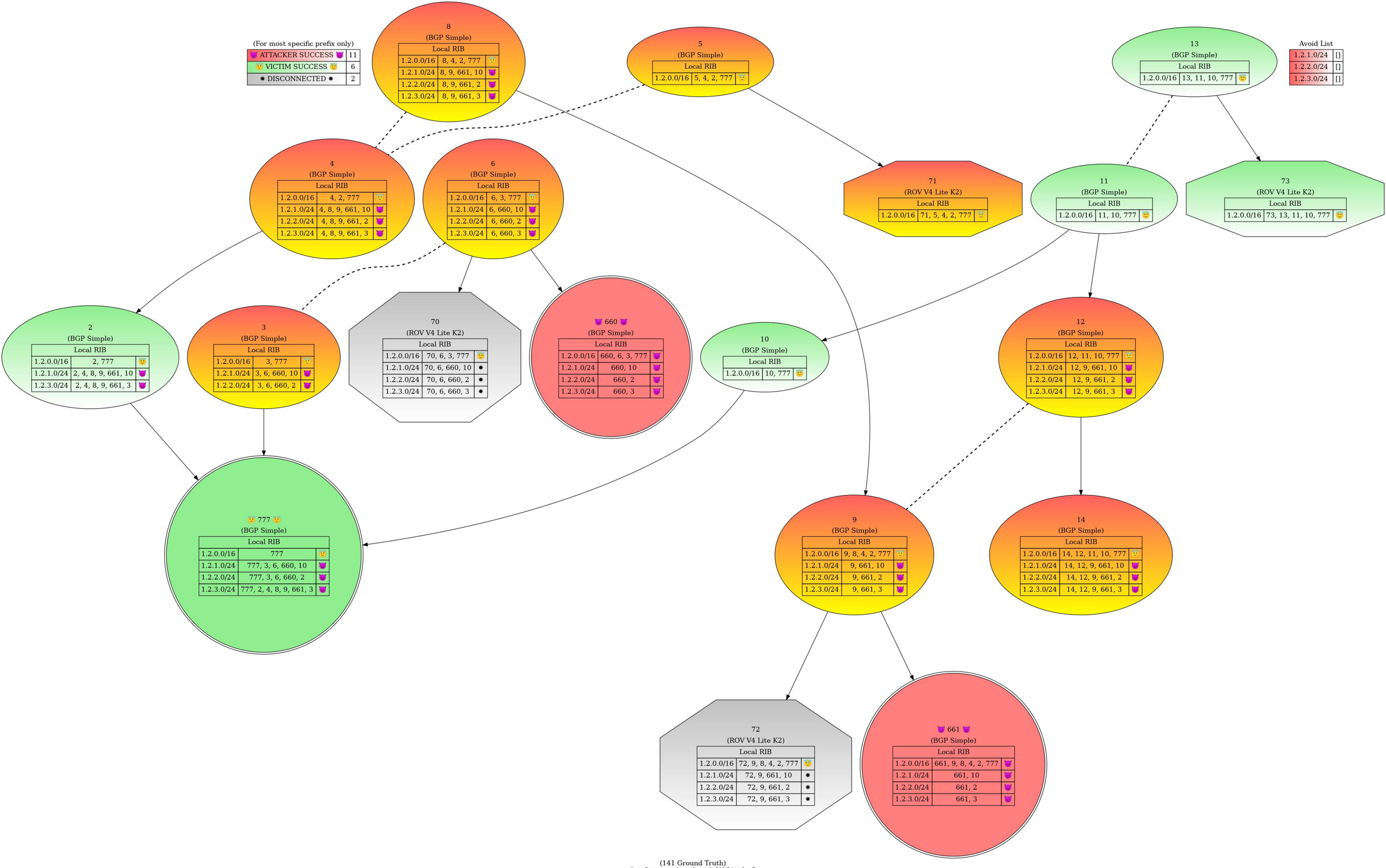

(140 Guess)
Subprefix Hijack with V4 Lite k=2
Traceback for 1.2.2.0/24



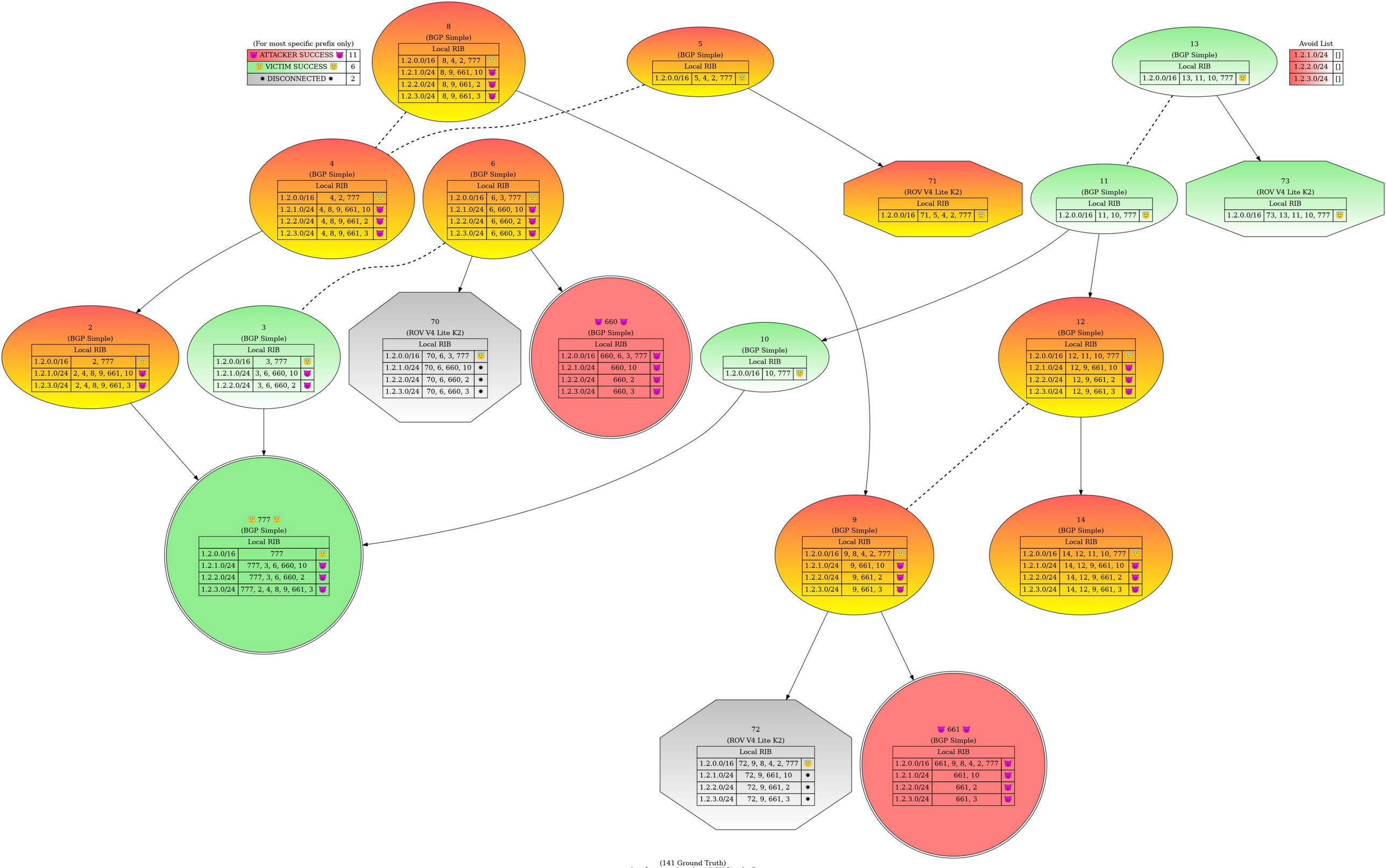

(140 Guess)
Subprefix Hijack with V4 Lite k=2
Traceback for 1.2.3.0/24



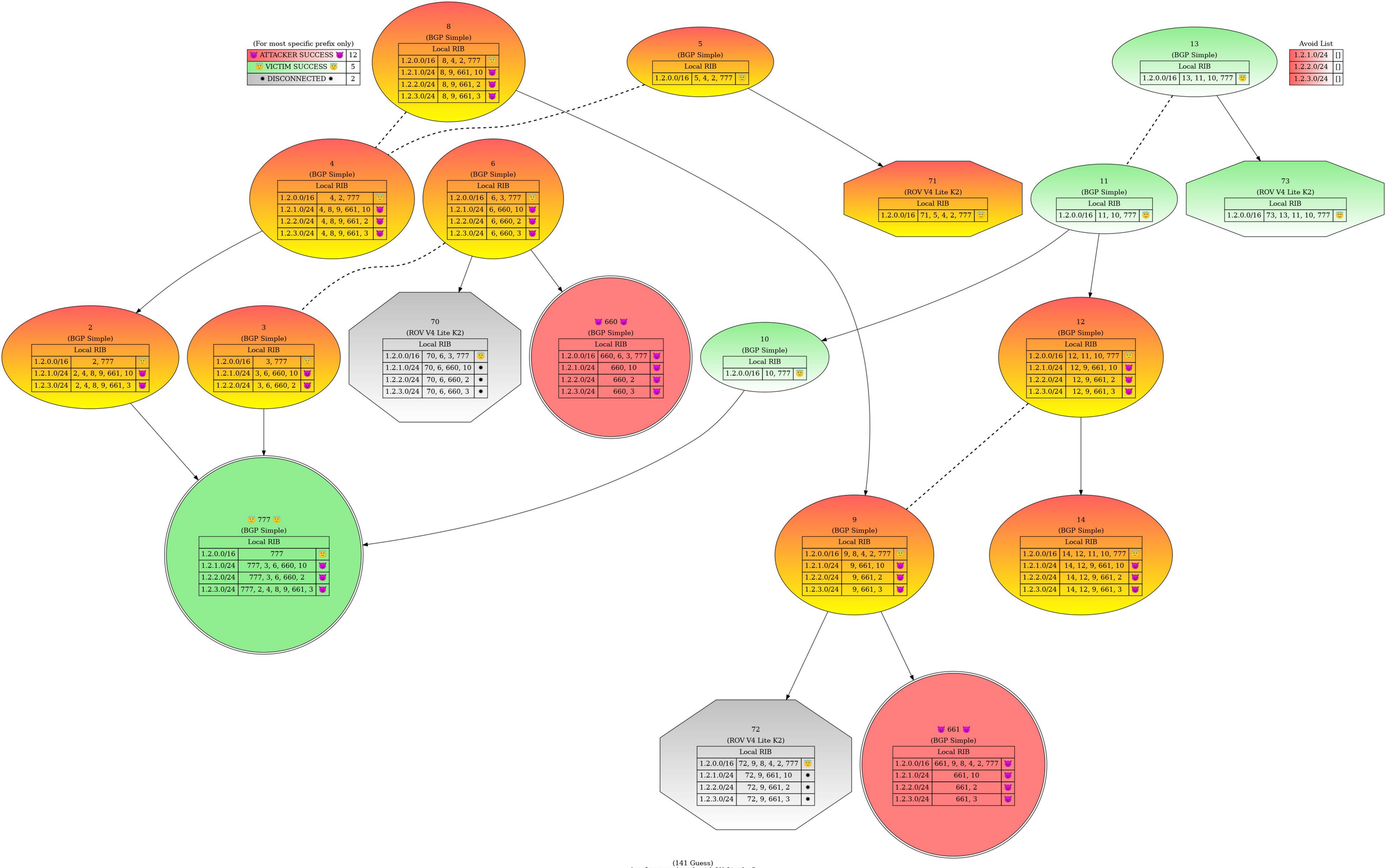

(141 Ground Truth)
AutoImmune Attack with V4 Lite k=2
Traceback for 1.2.1.0/24



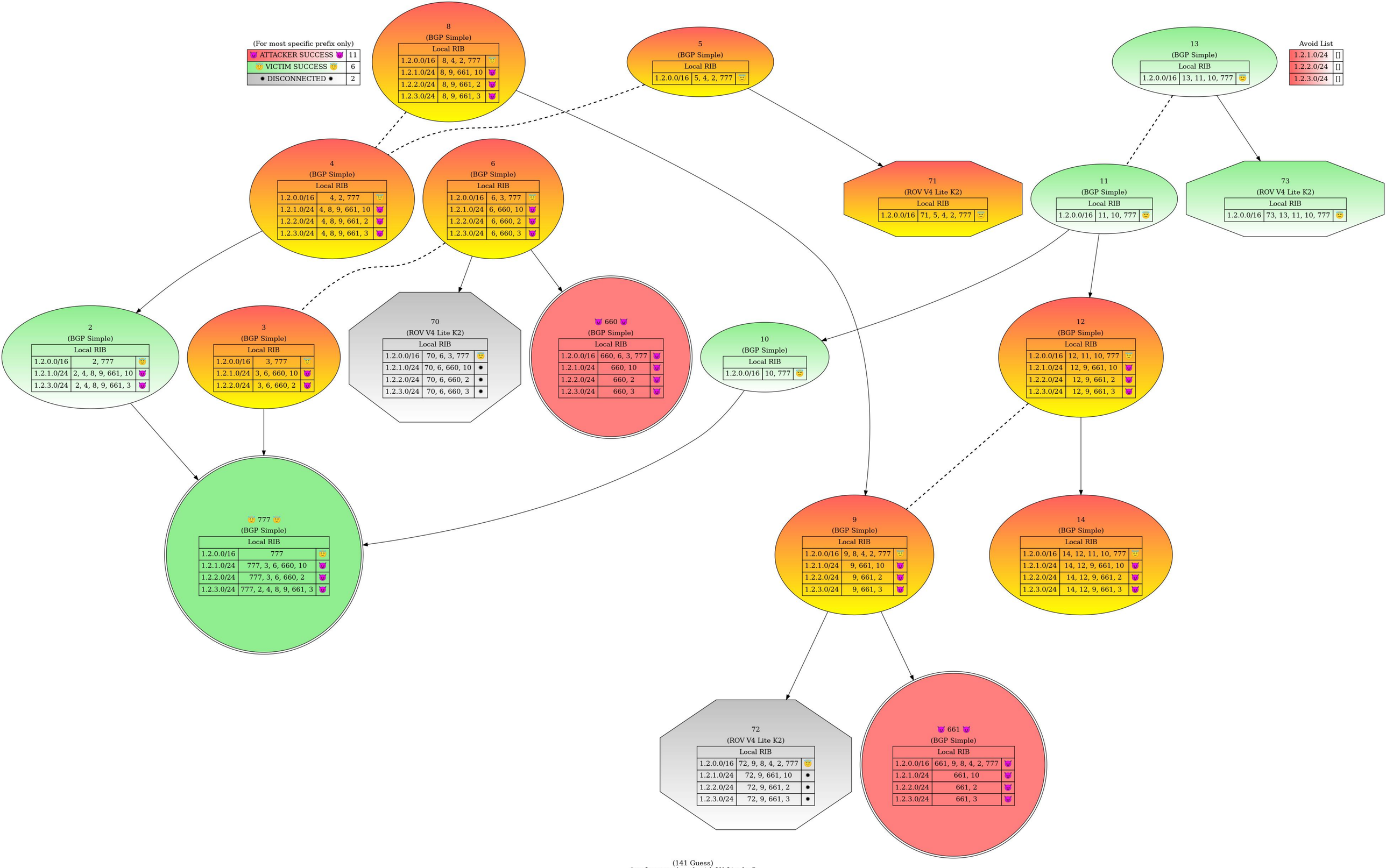

(141 Ground Truth)
AutoImmune Attack with V4 Lite k=2
Traceback for 1.2.2.0/24



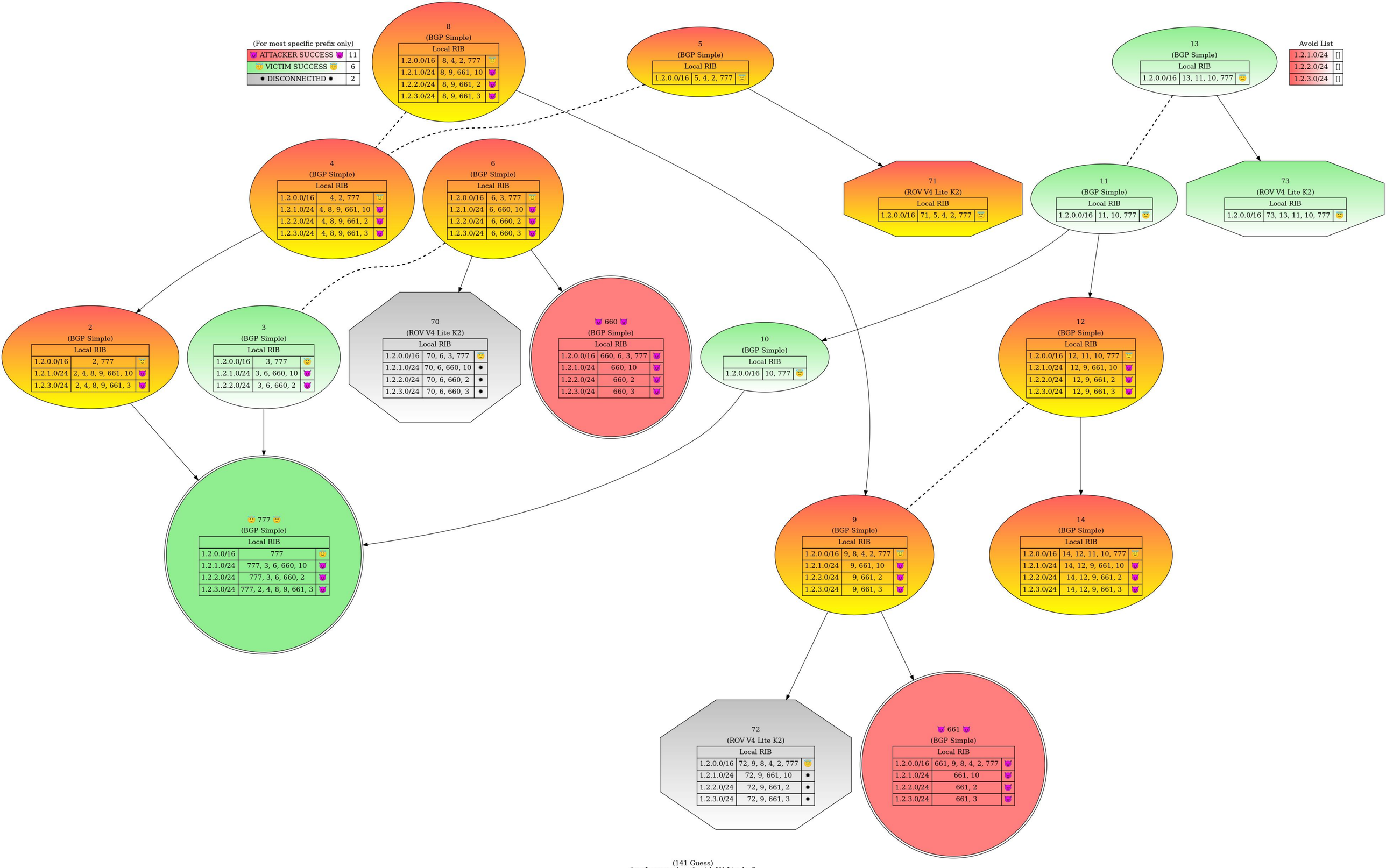

(141 Ground Truth)
AutoImmune Attack with V4 Lite k=2
Traceback for 1.2.3.0/24



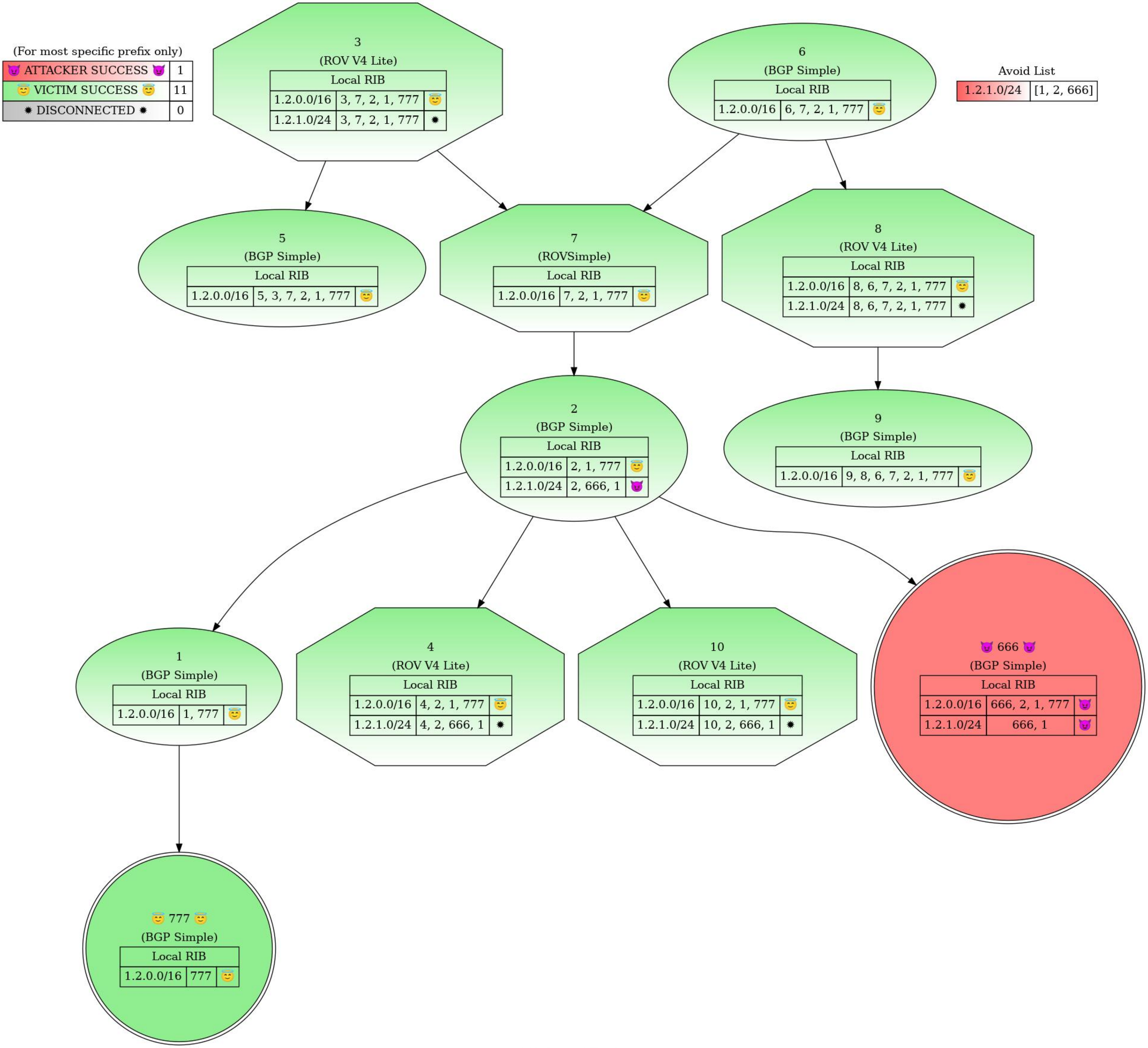

(141 Guess)
AutoImmune Attack with V4 Lite k=2
Traceback for 1.2.1.0/24



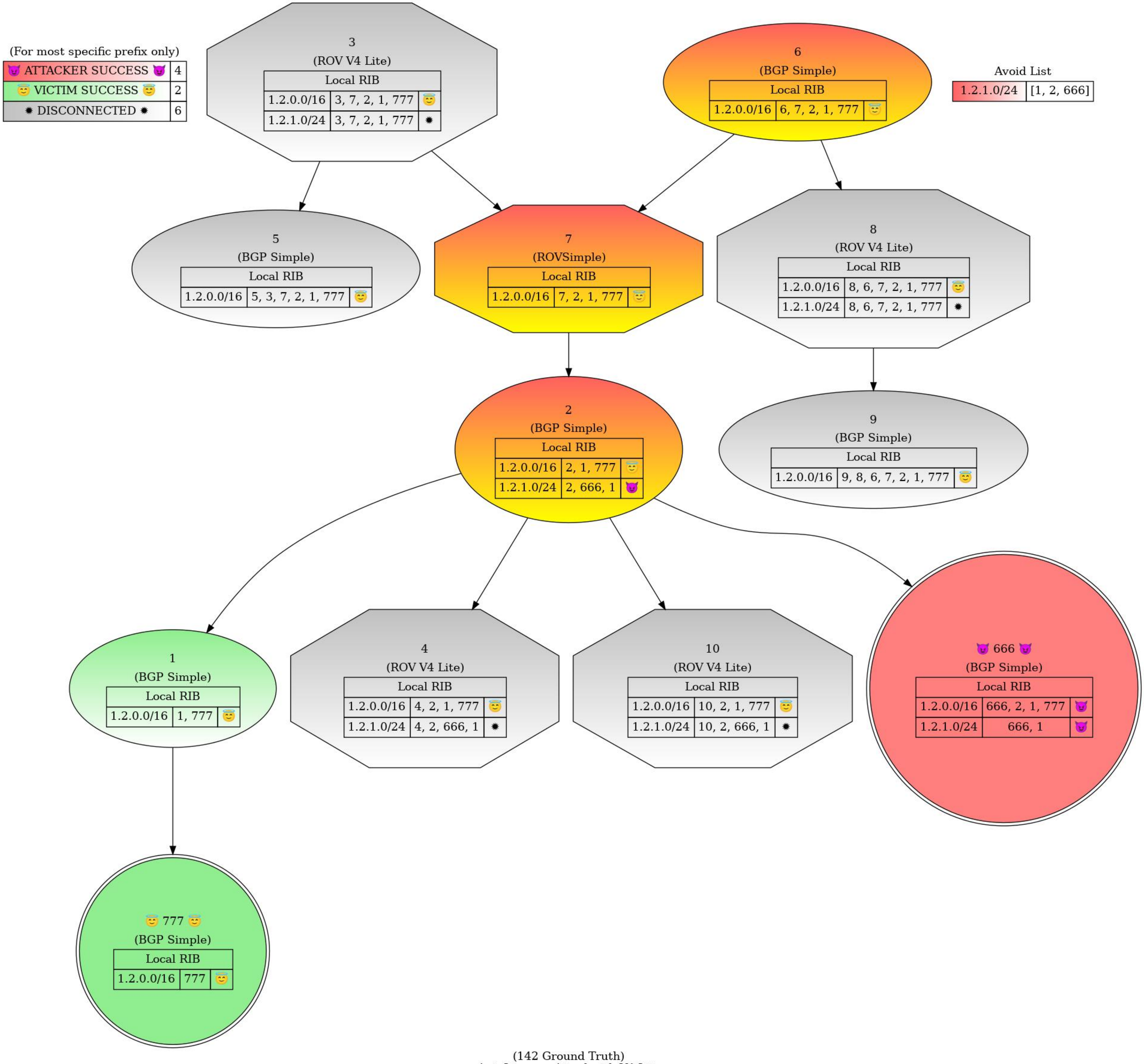

(141 Guess)
AutoImmune Attack with V4 Lite k=2
Traceback for 1.2.2.0/24



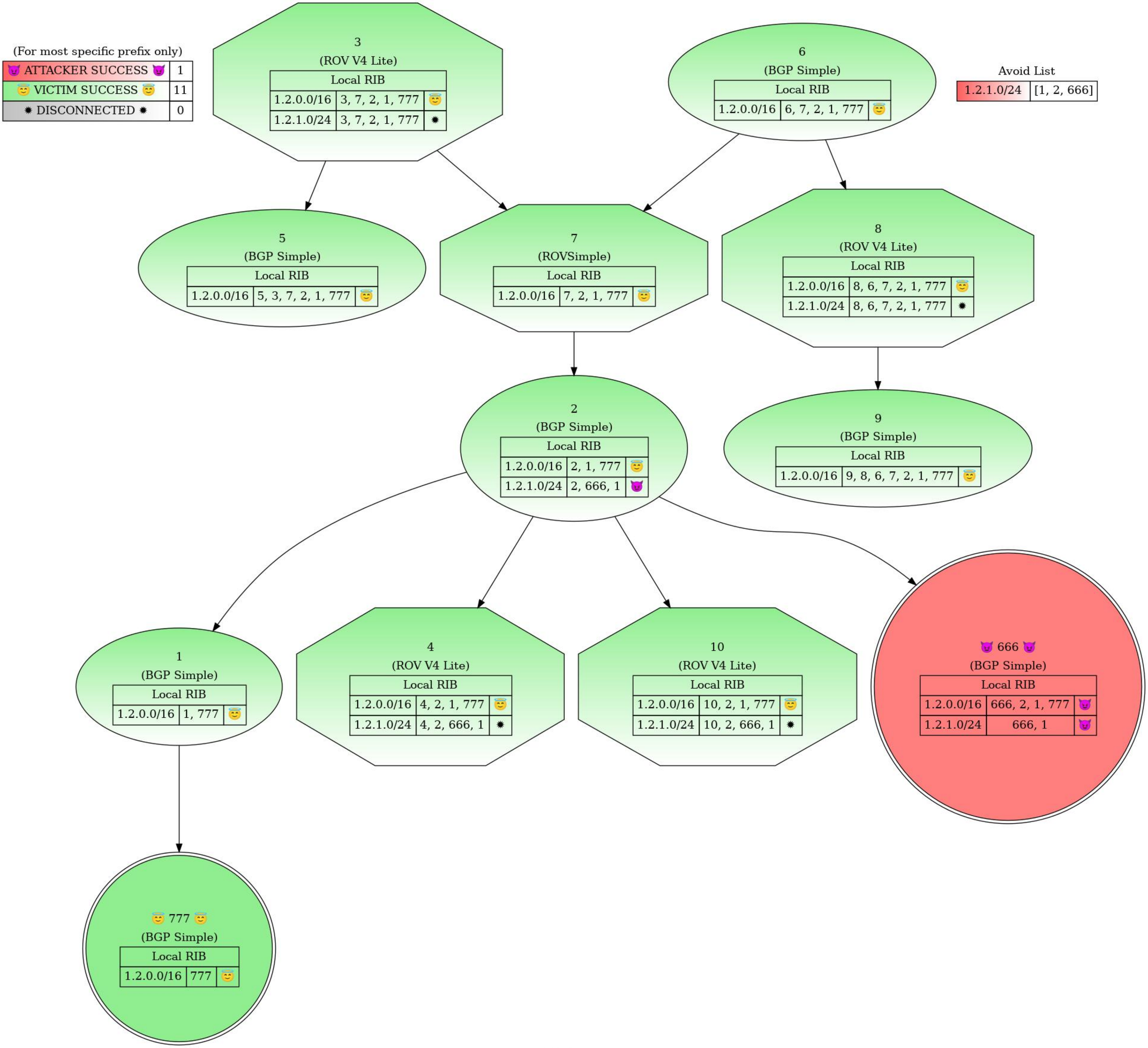

(141 Guess)
AutoImmune Attack with V4 Lite k=2
Traceback for 1.2.3.0/24



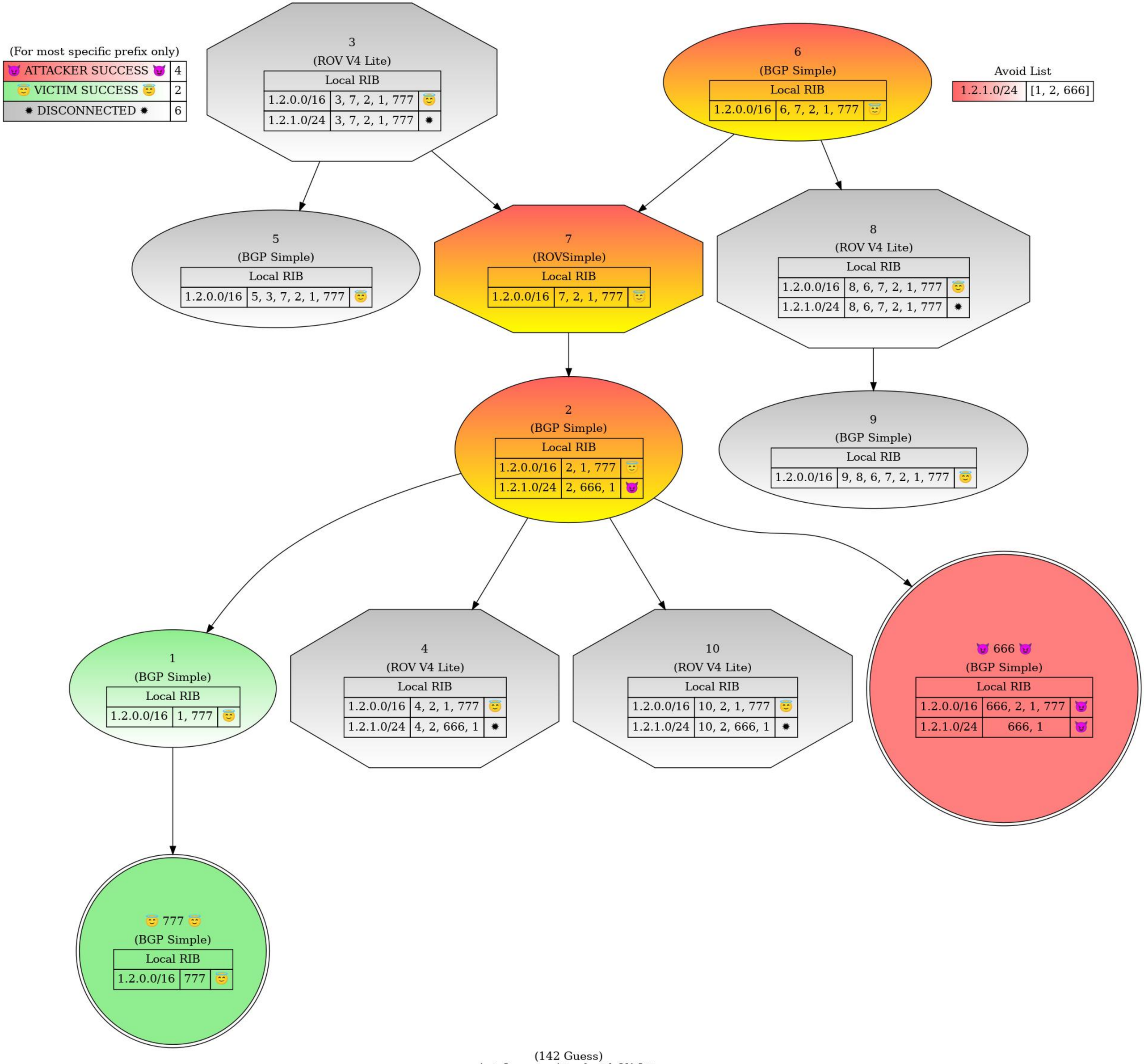

(142 Ground Truth)
AutoImmune Attackwith V4 Lite
Traceback for 1.2.0.0/16



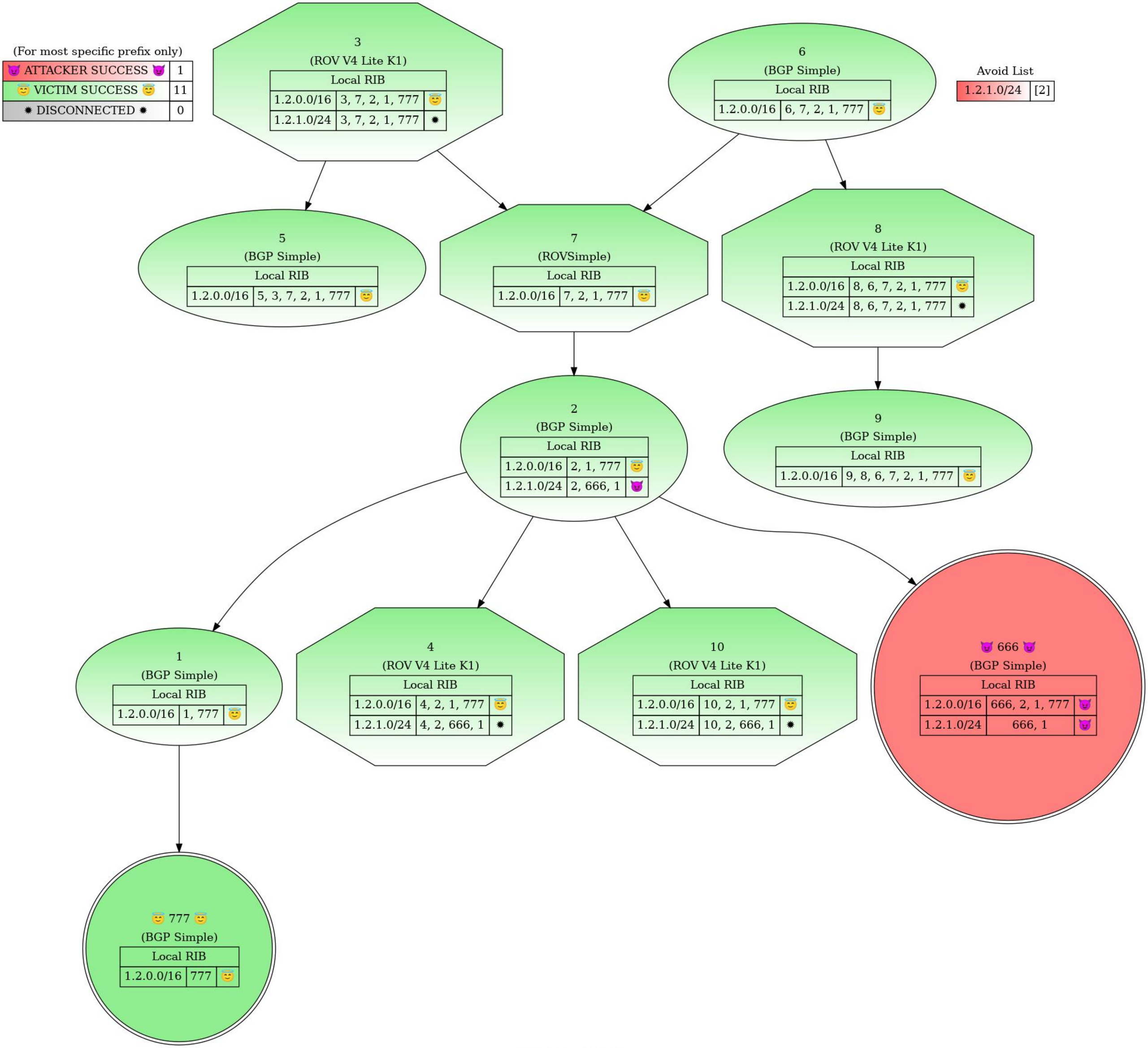

(142 Ground Truth)
AutoImmune Attackwith V4 Lite
Traceback for 1.2.1.0/24



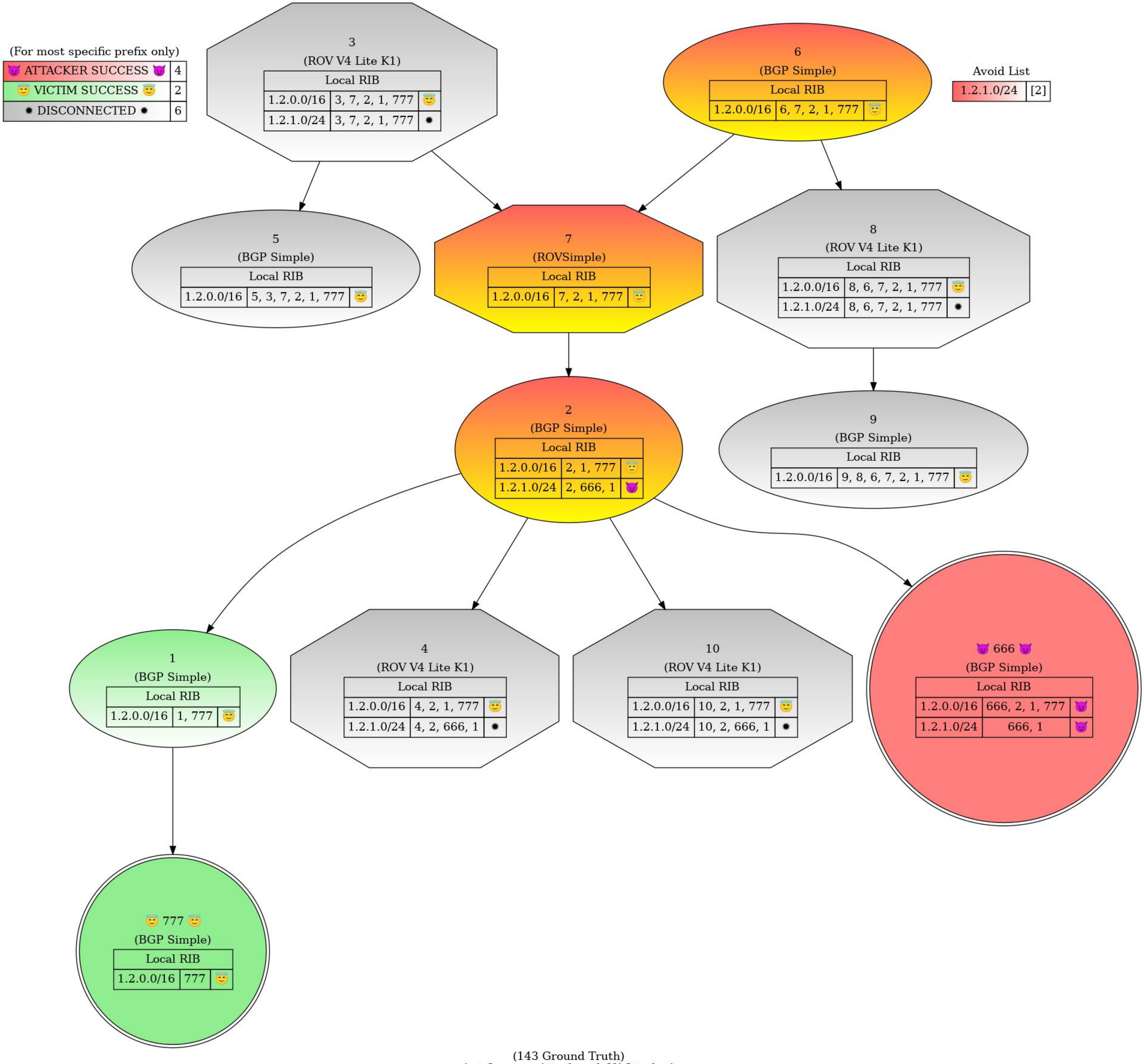

(142 Guess)
AutoImmune Attackwith V4 Lite
Traceback for 1.2.0.0/16



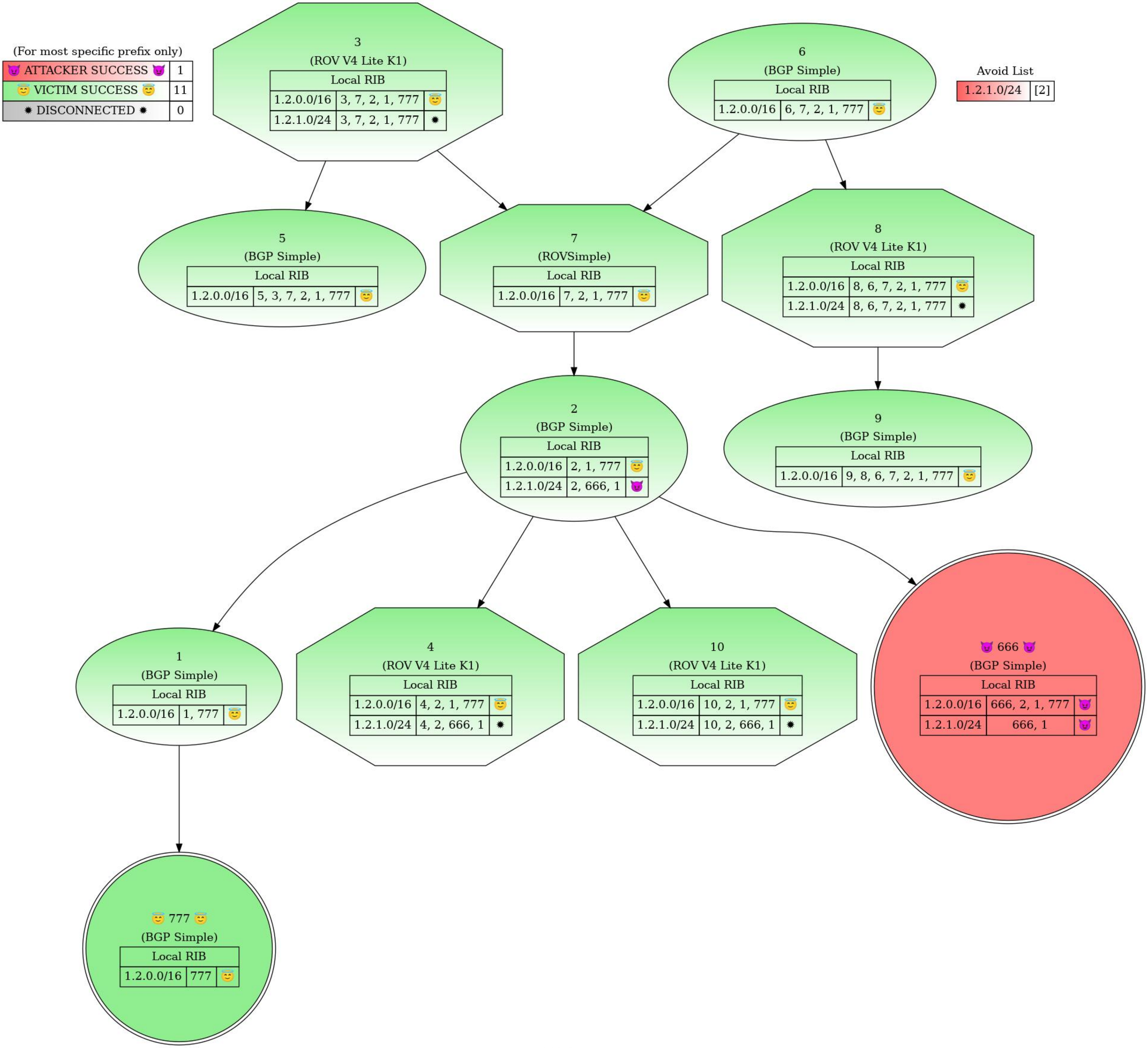

(142 Guess)
AutoImmune Attackwith V4 Lite
Traceback for 1.2.1.0/24



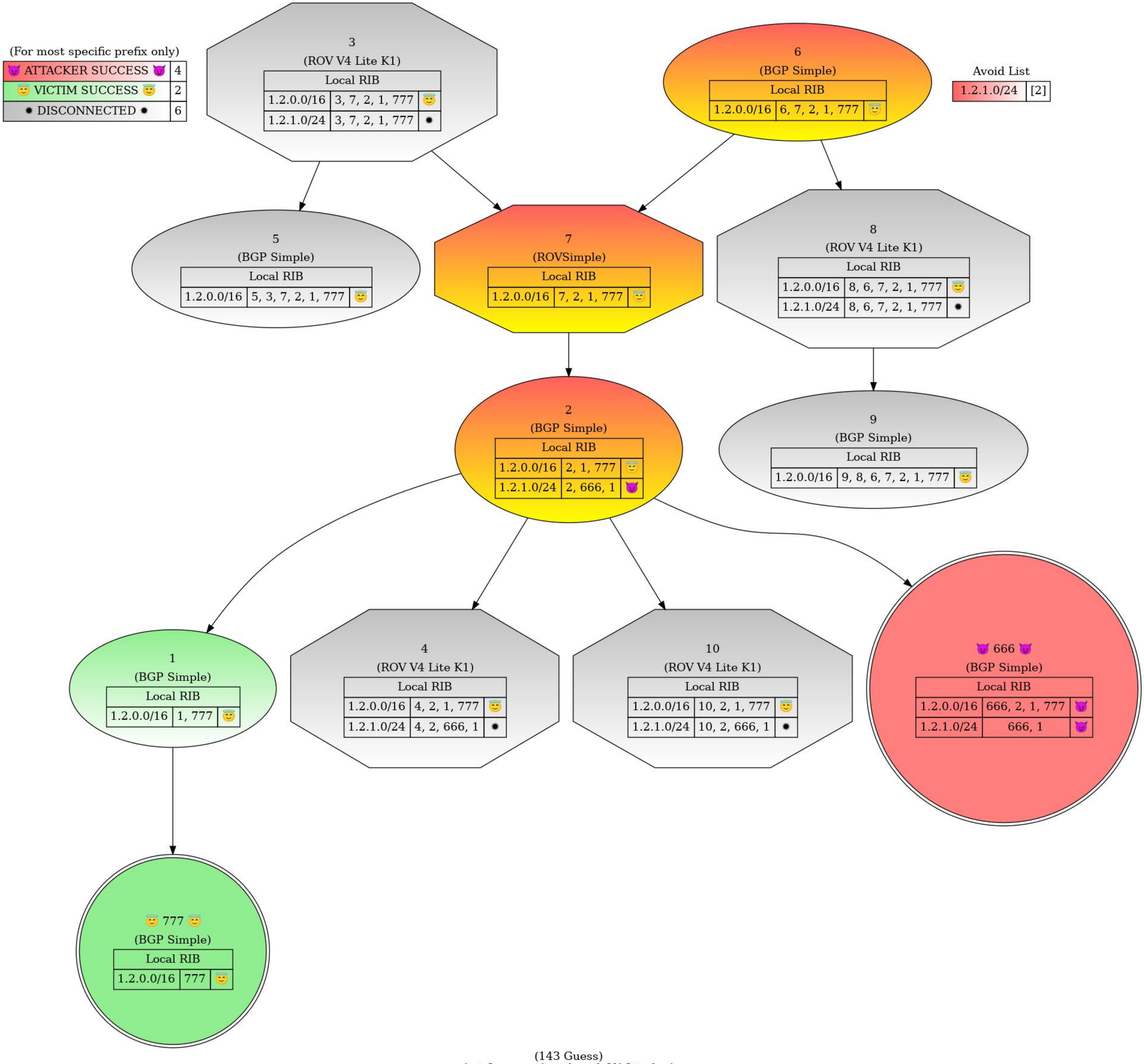

(143 Ground Truth)
AutoImmune Attack with V4 Lite k=1
Traceback for 1.2.0.0/16



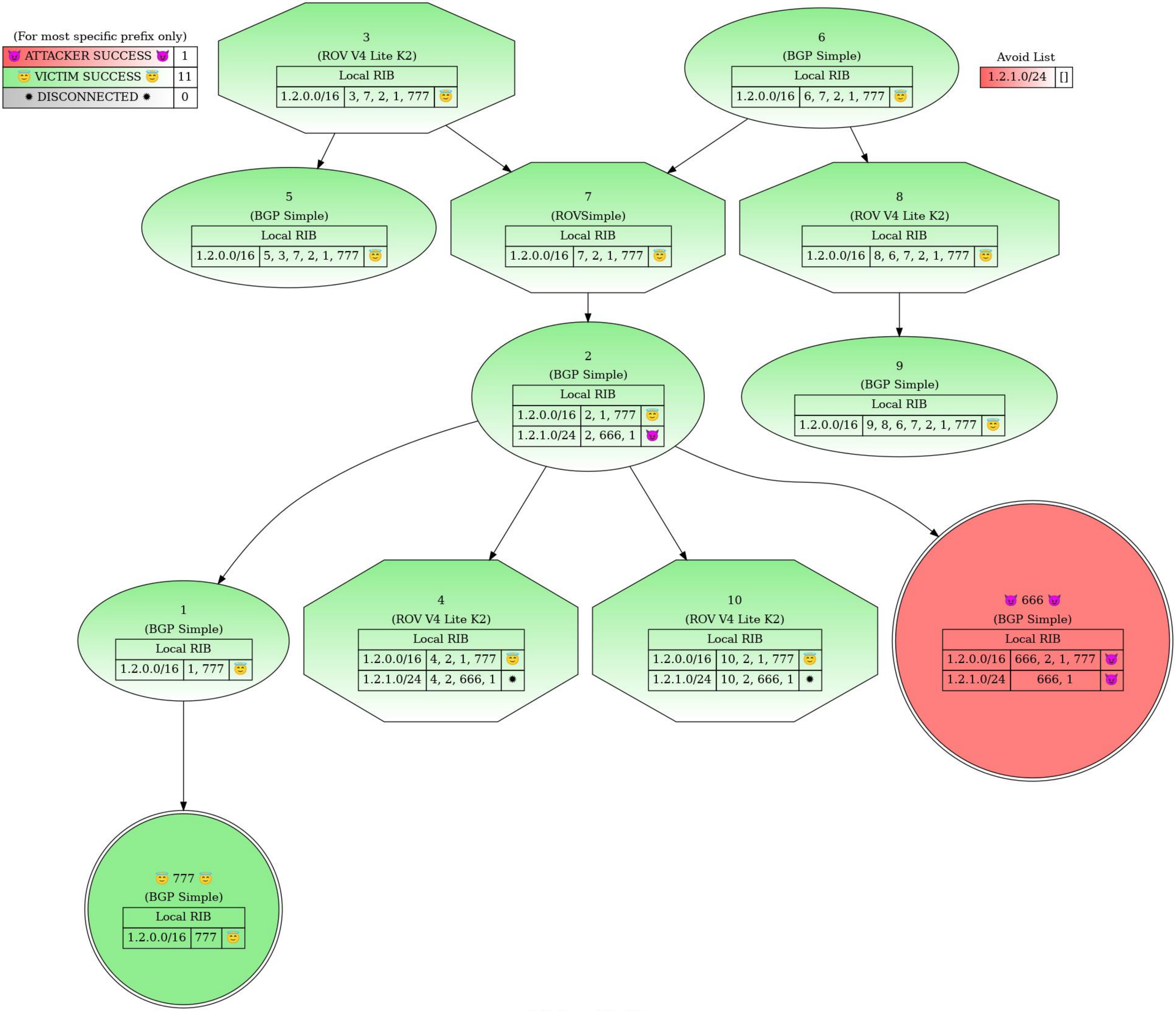

(143 Ground Truth)
AutoImmune Attack with V4 Lite k=1
Traceback for 1.2.1.0/24



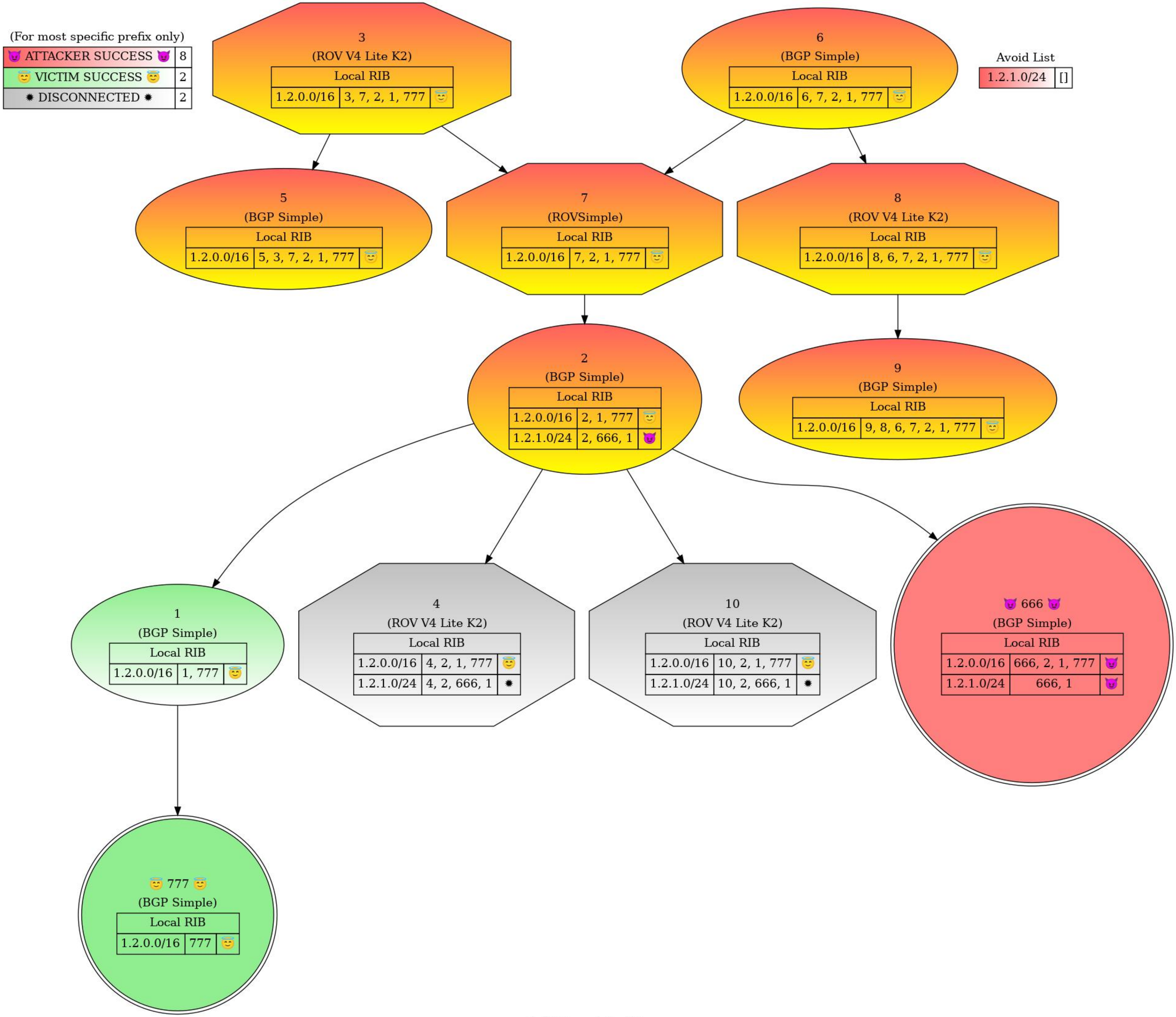

(143 Guess)
AutoImmune Attack with V4 Lite k=1
Traceback for 1.2.0.0/16



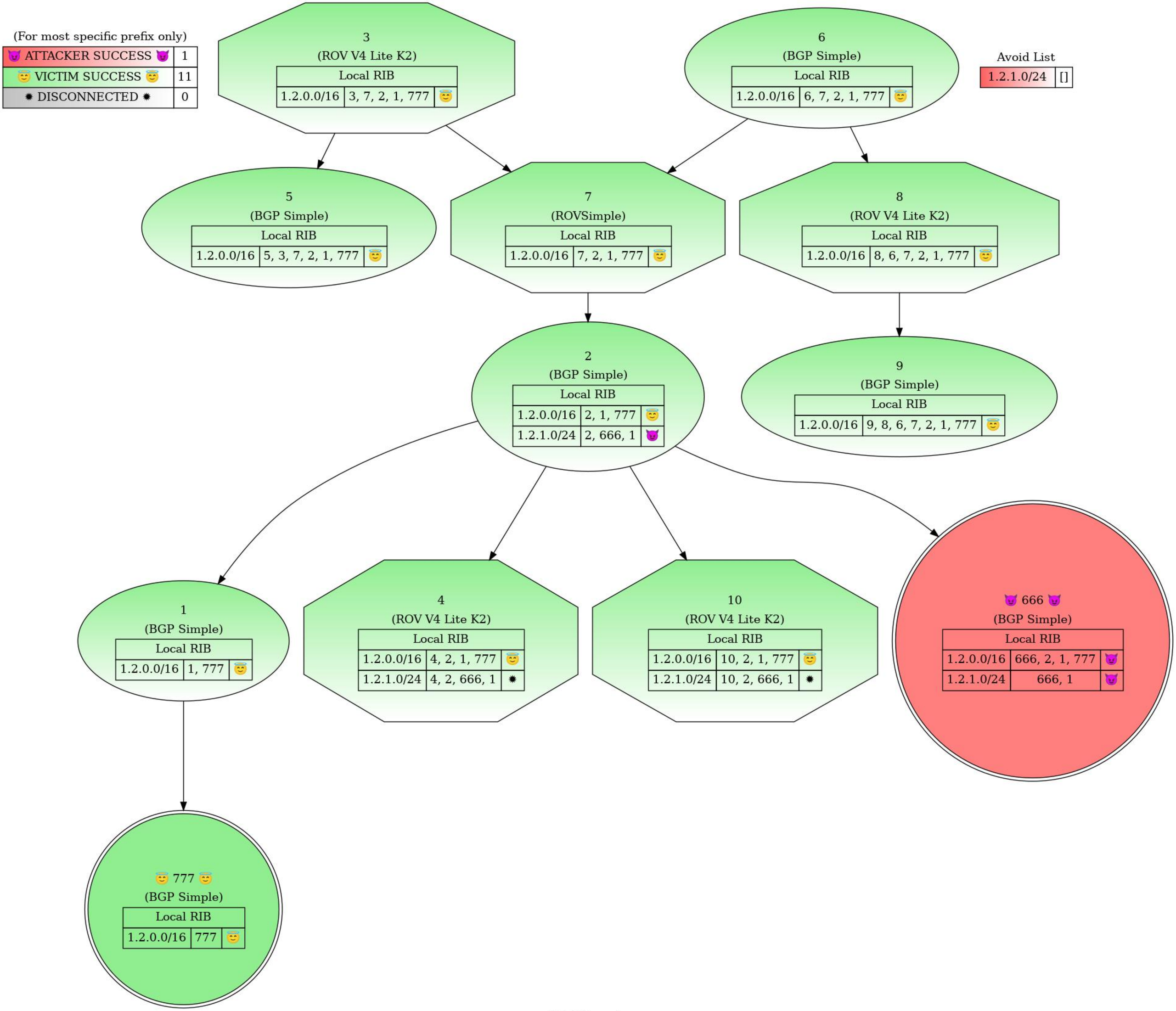

(143 Guess)
AutoImmune Attack with V4 Lite k=1
Traceback for 1.2.1.0/24



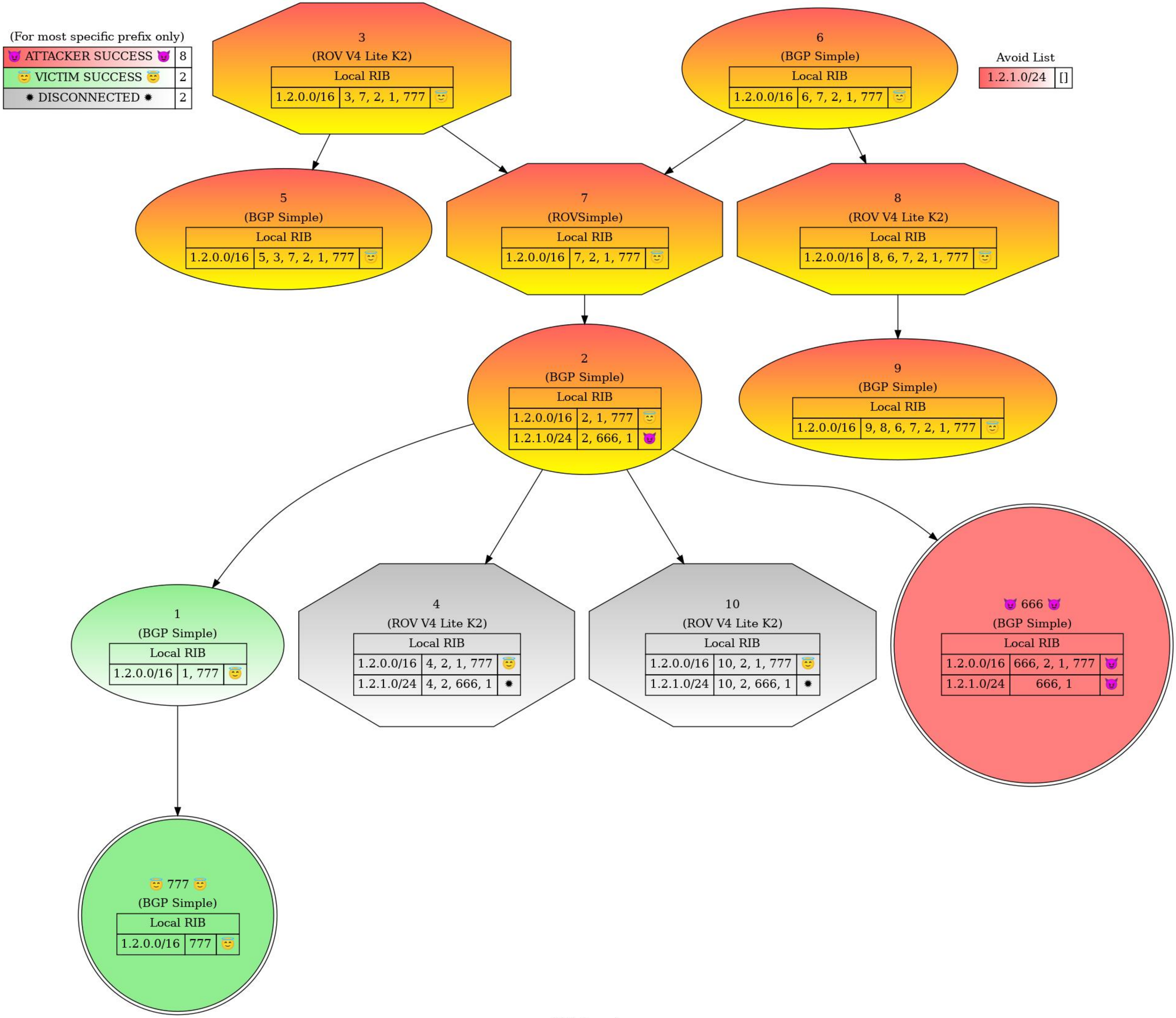

(144 Ground Truth)
AutoImmune Attack with V4 Lite k=2
Traceback for 1.2.0.0/16



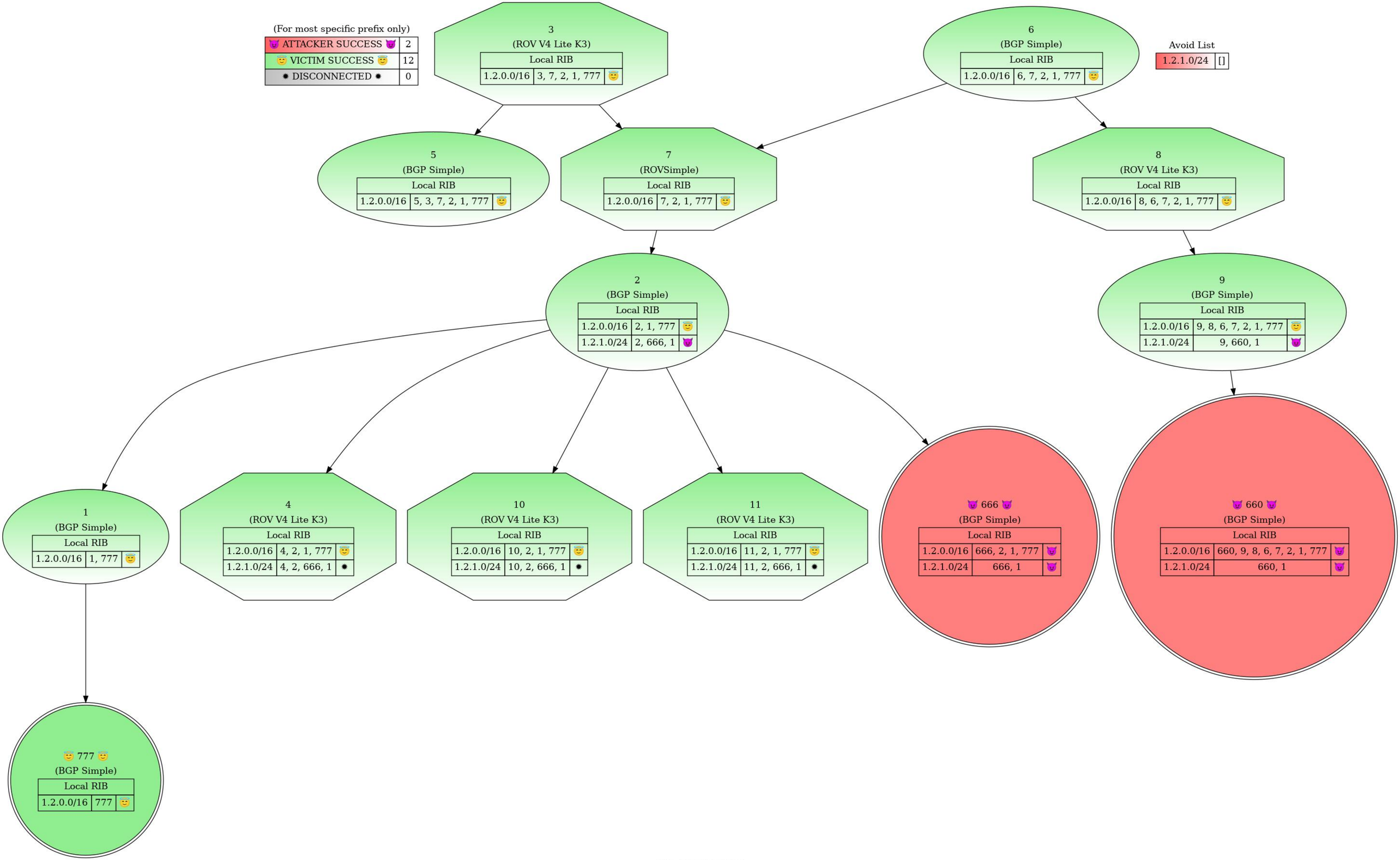

(144 Ground Truth)
AutoImmune Attack with V4 Lite k=2
Traceback for 1.2.1.0/24



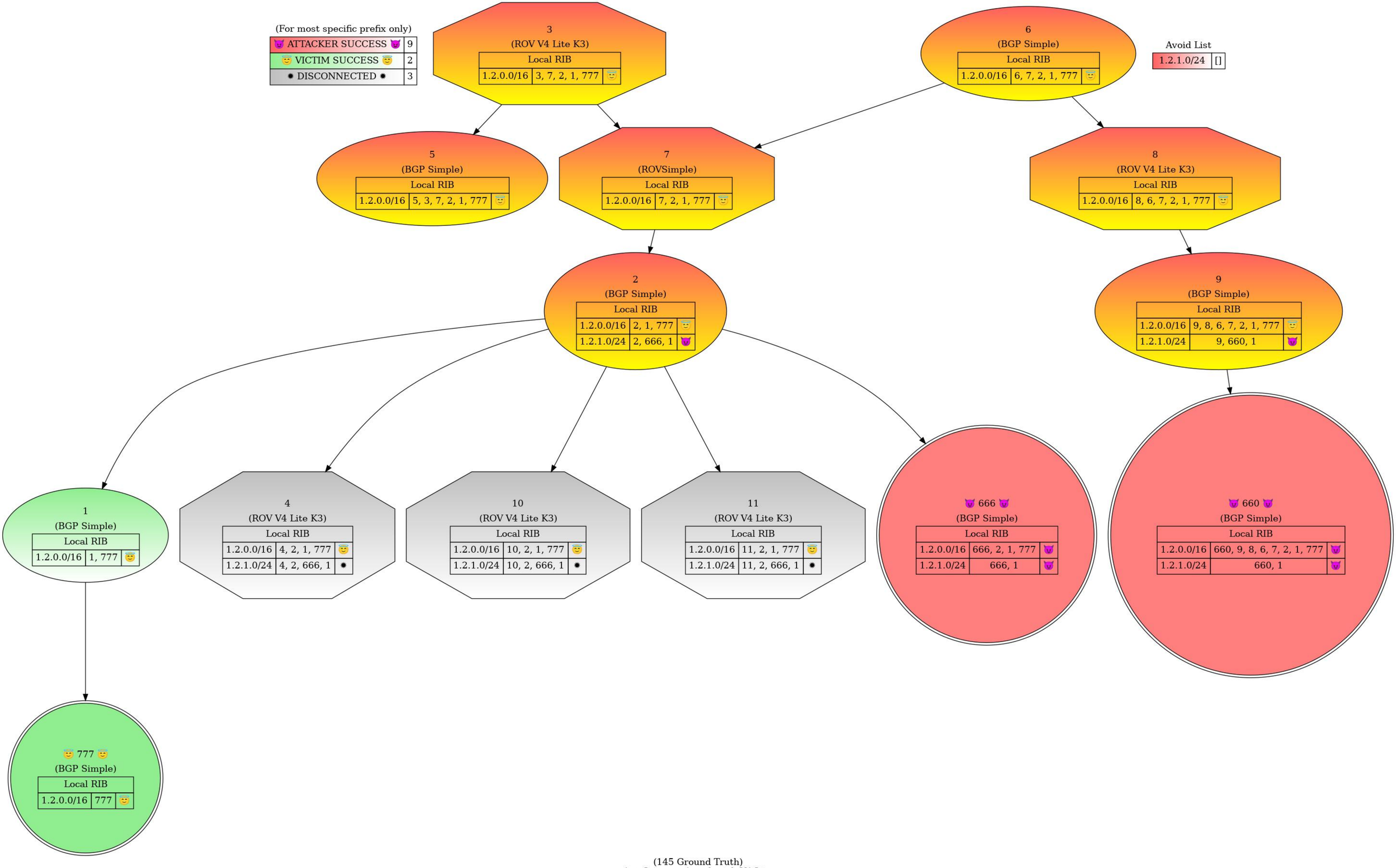

(144 Guess)
AutoImmune Attack with V4 Lite k=2
Traceback for 1.2.0.0/16



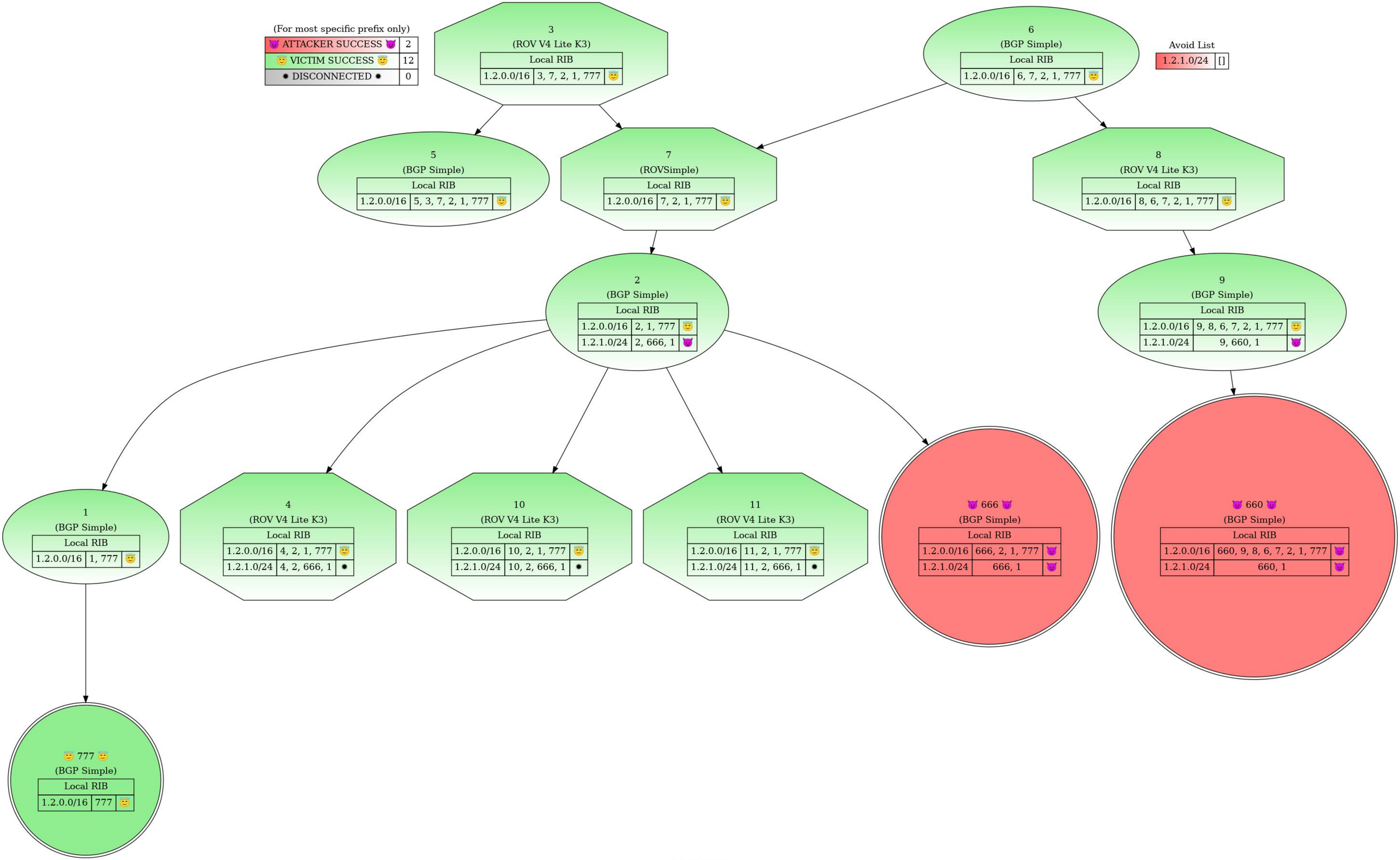

(144 Guess)
AutoImmune Attack with V4 Lite k=2
Traceback for 1.2.1.0/24



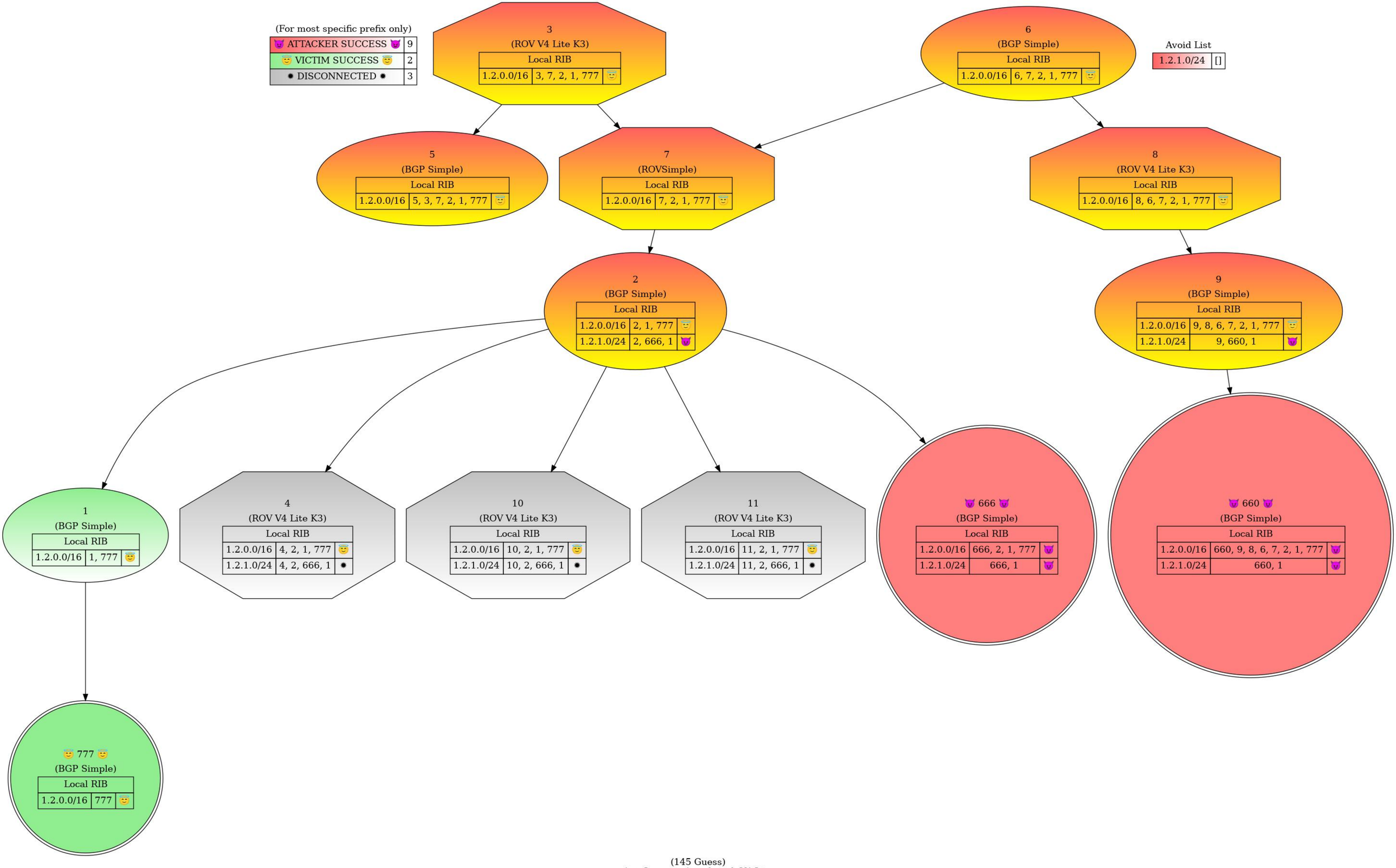

(145 Ground Truth)
AutoImmune Attack with V4 Lite
Traceback for 1.2.0.0/16



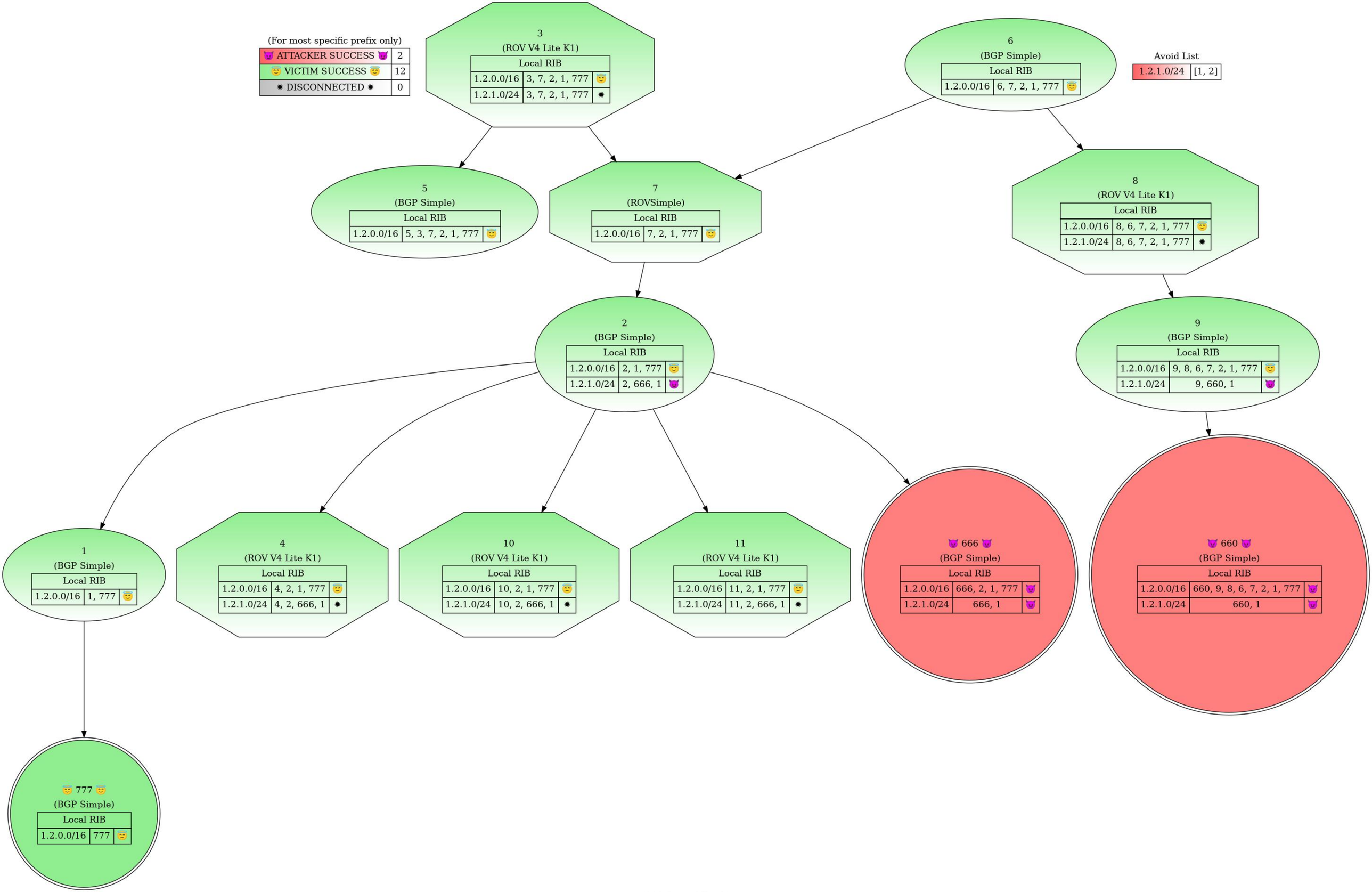

(145 Ground Truth)
AutoImmune Attack with V4 Lite
Traceback for 1.2.1.0/24



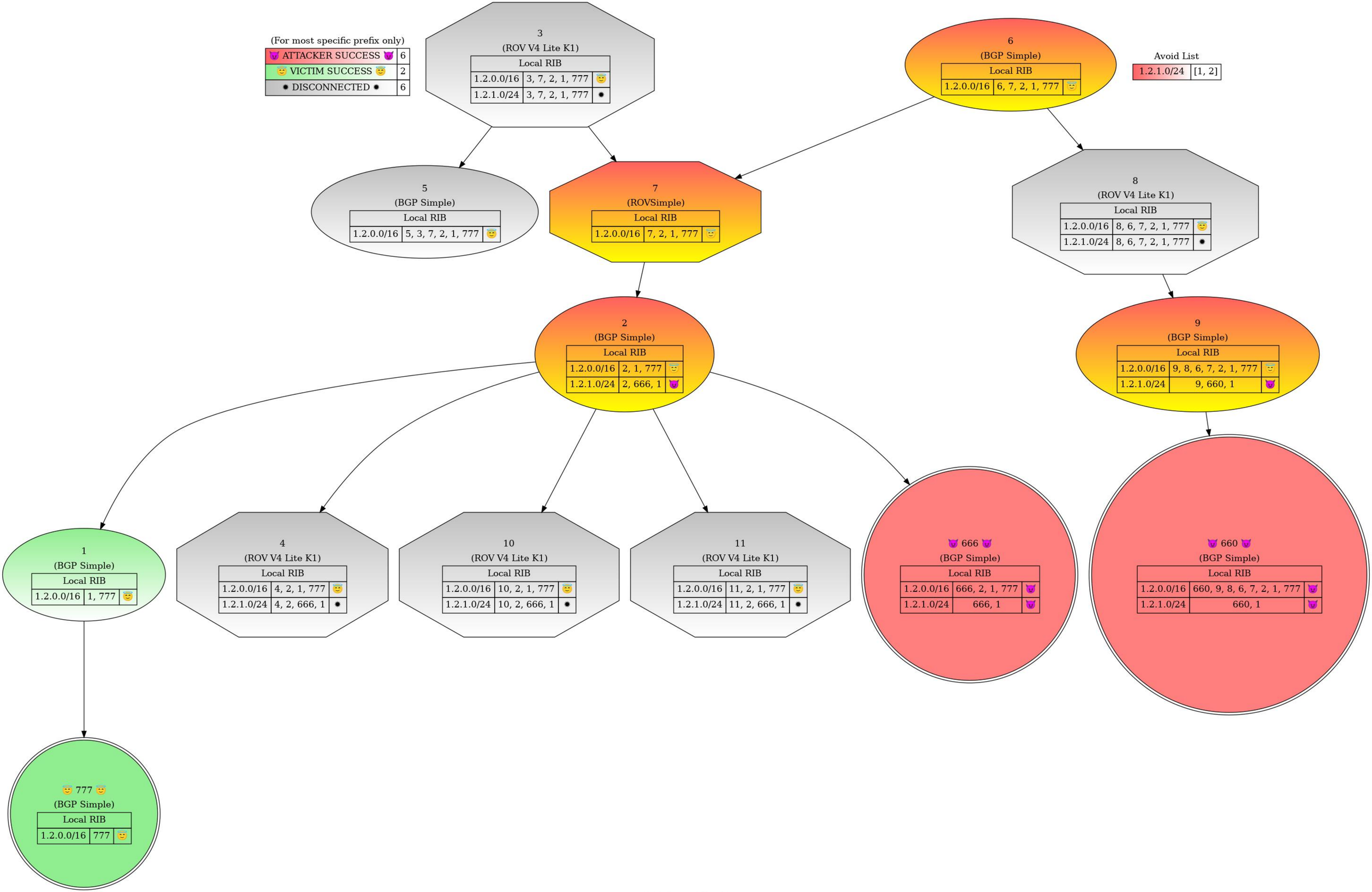

(145 Guess)
AutoImmune Attack with V4 Lite
Traceback for 1.2.0.0/16



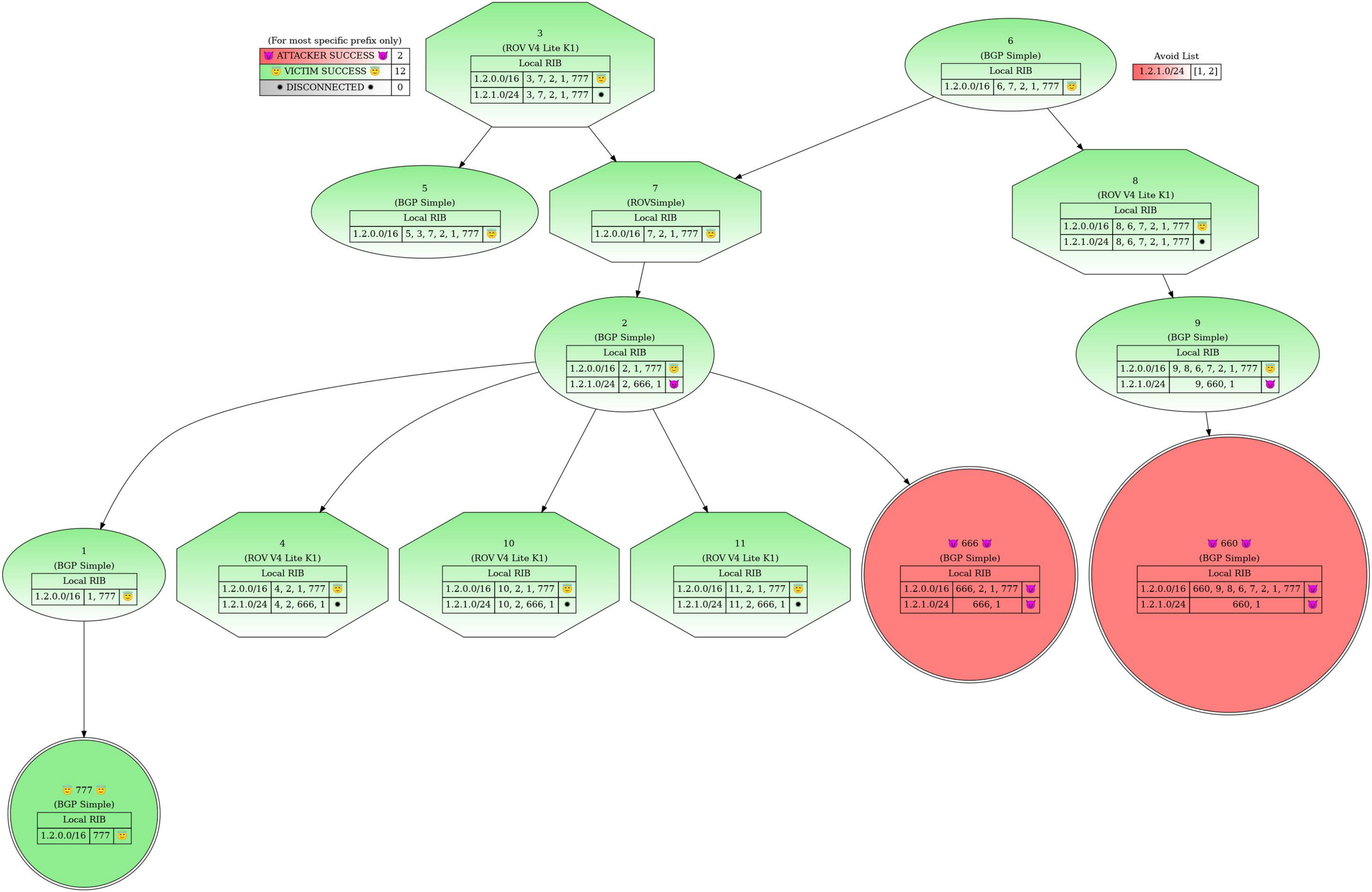

(145 Guess)
AutoImmune Attack with V4 Lite
Traceback for 1.2.1.0/24



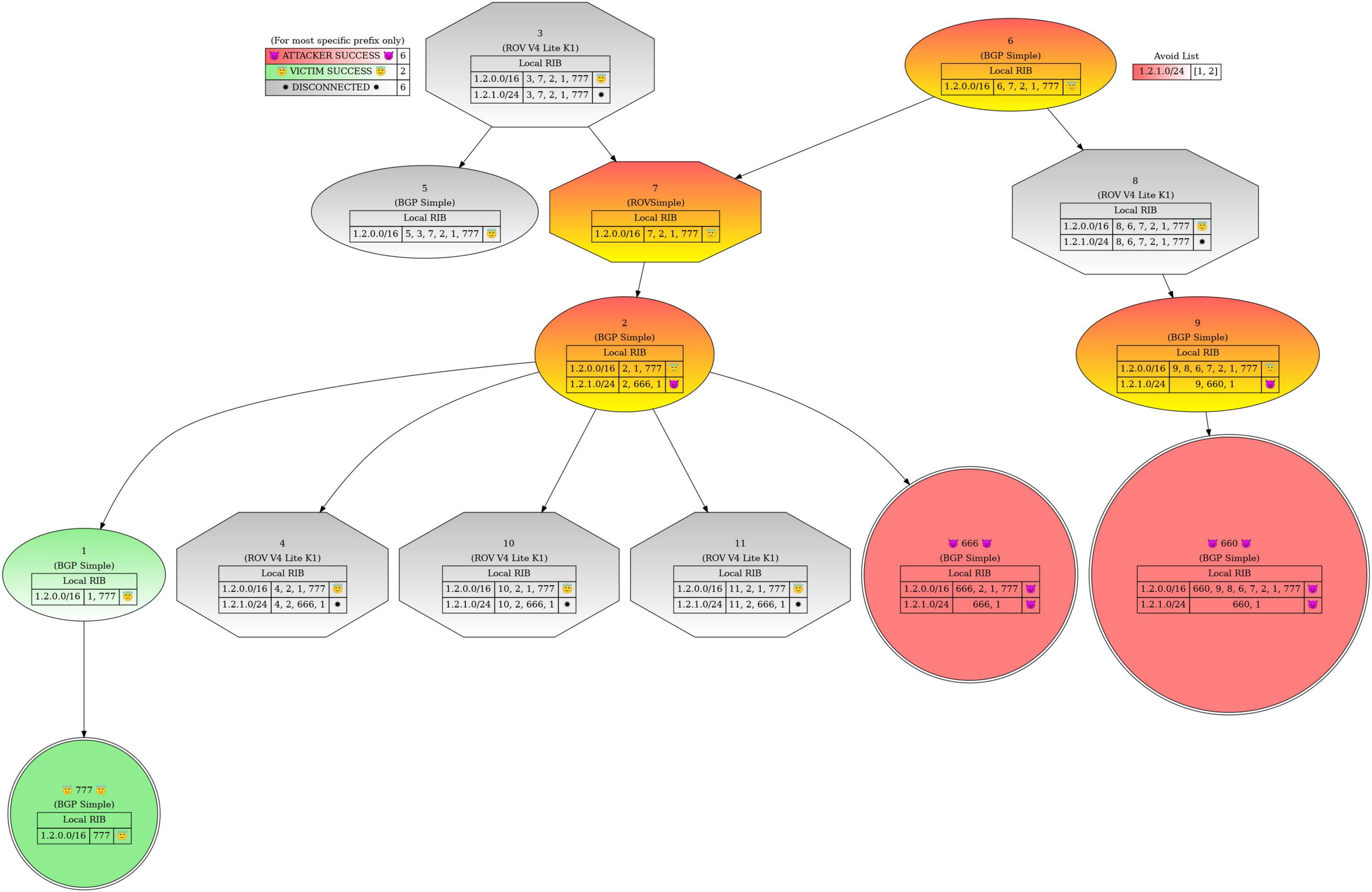

(146 Ground Truth)
AutoImmune Attack with V4 Lite K=1
Traceback for 1.2.0.0/16



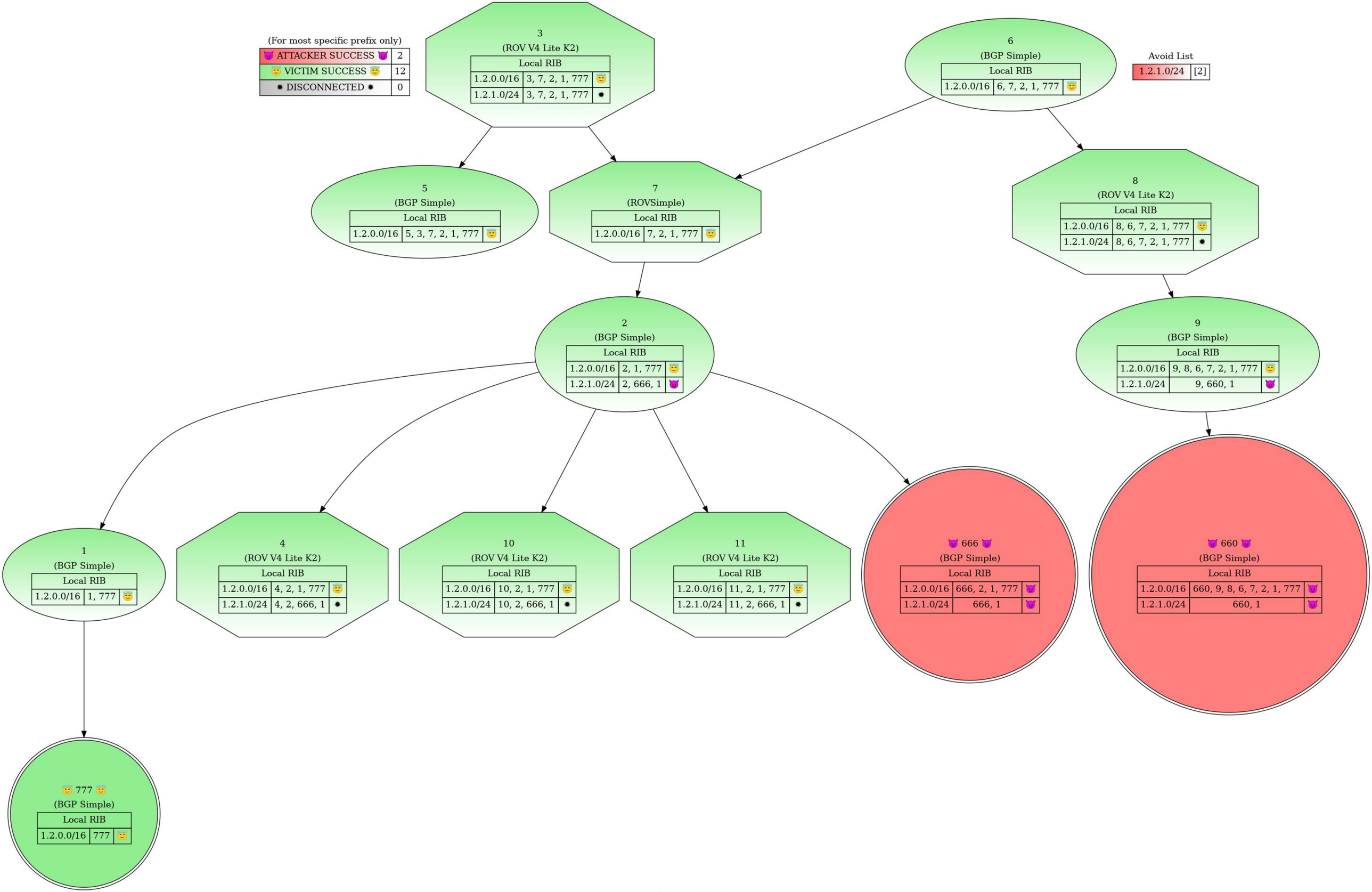

(146 Ground Truth)
AutoImmune Attack with V4 Lite K=1
Traceback for 1.2.1.0/24



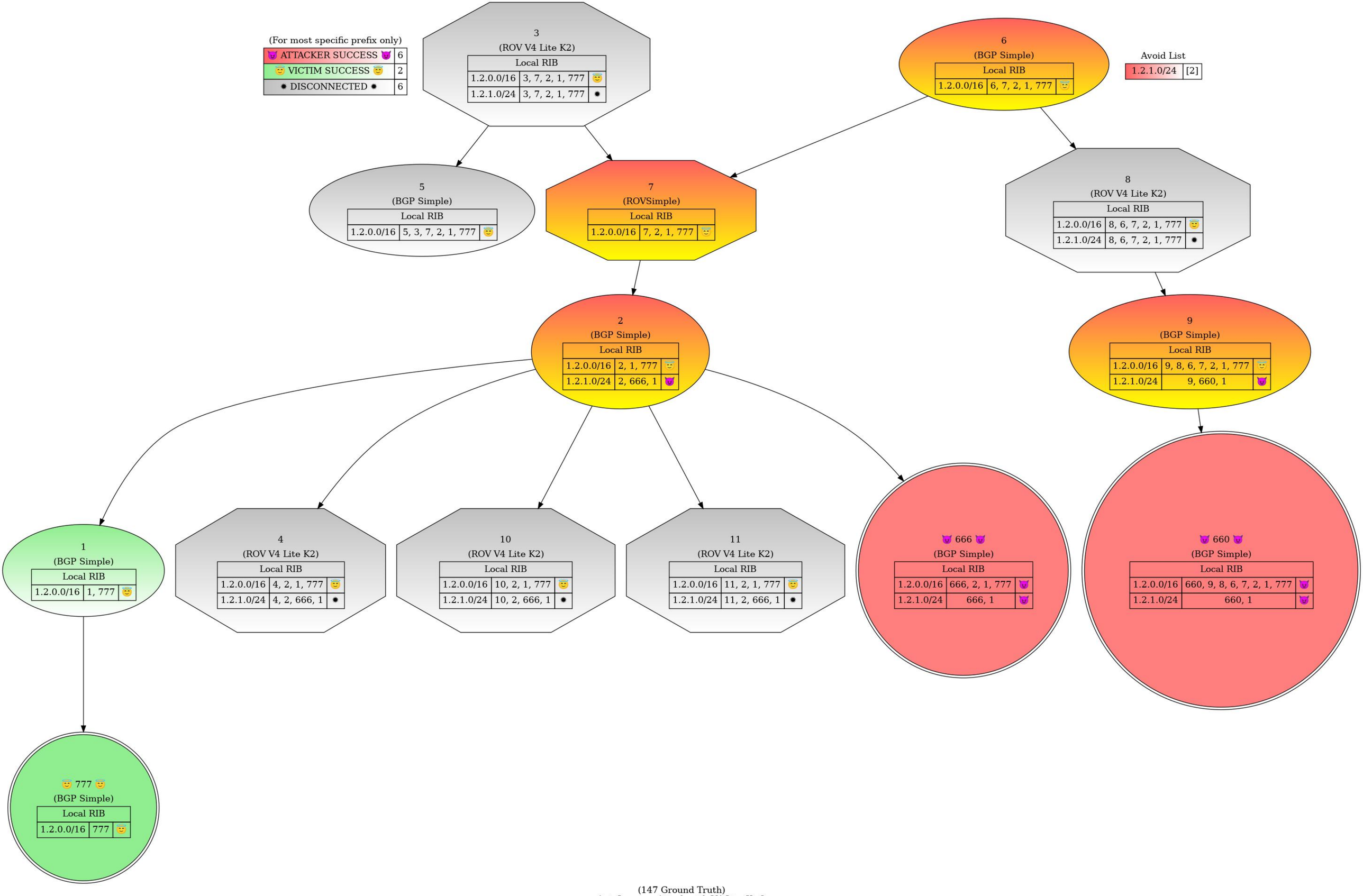

(146 Guess)
AutoImmune Attack with V4 Lite K=1
Traceback for 1.2.0.0/16



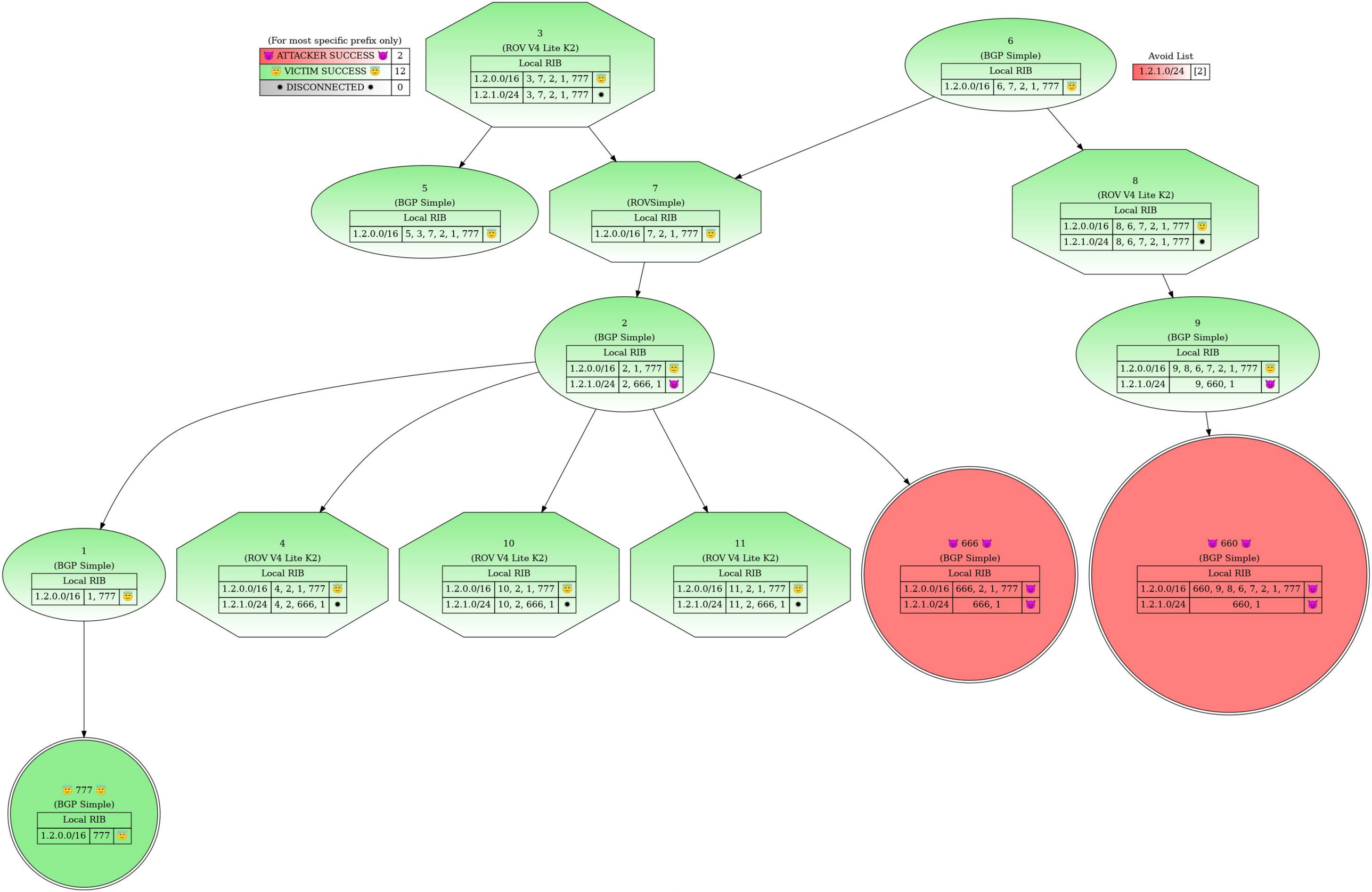

(146 Guess)
AutoImmune Attack with V4 Lite K=1
Traceback for 1.2.1.0/24



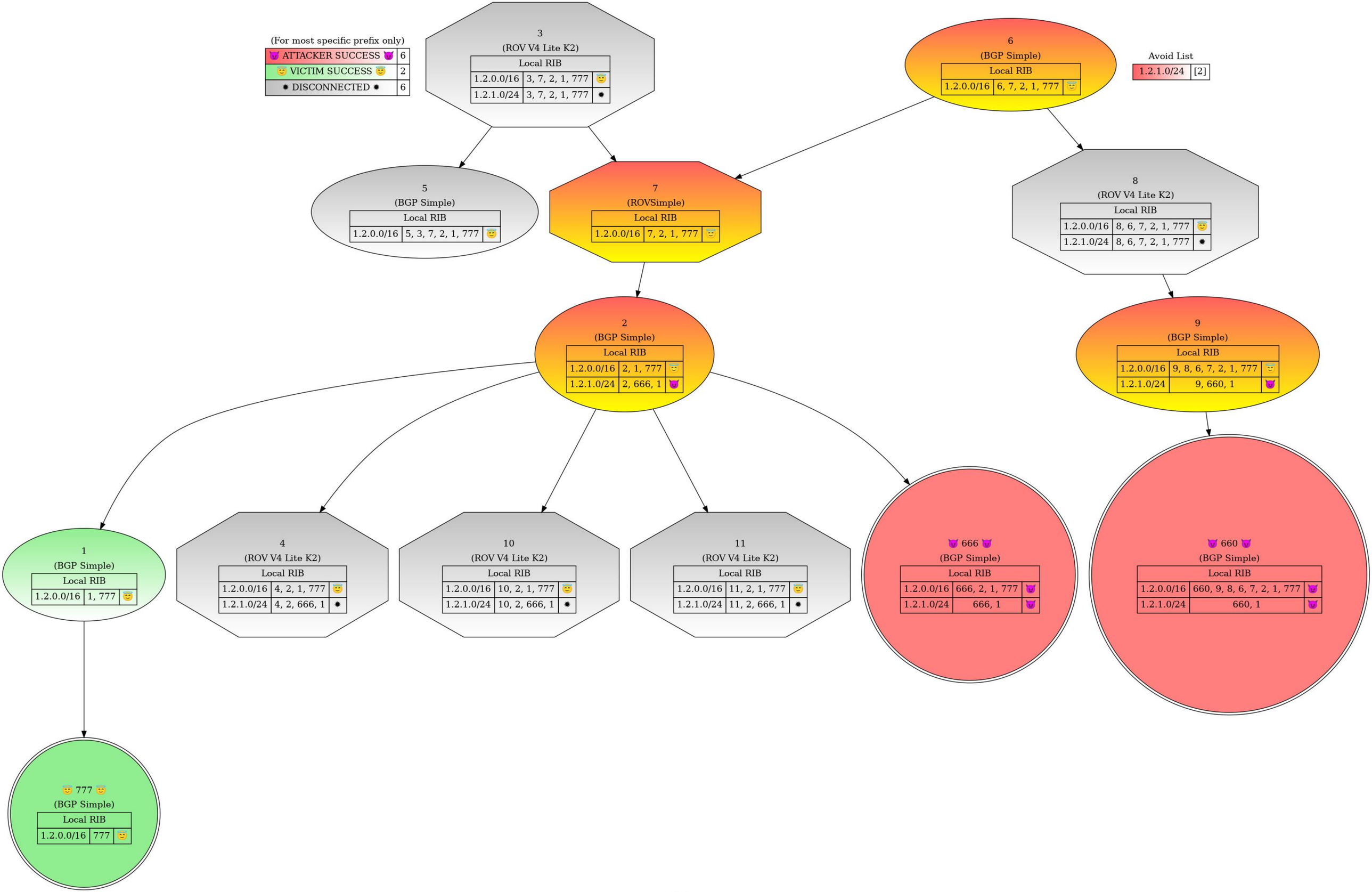

(147 Ground Truth)
AutoImmune Attack with V4 Lite K=2
Traceback for 1.2.0.0/16



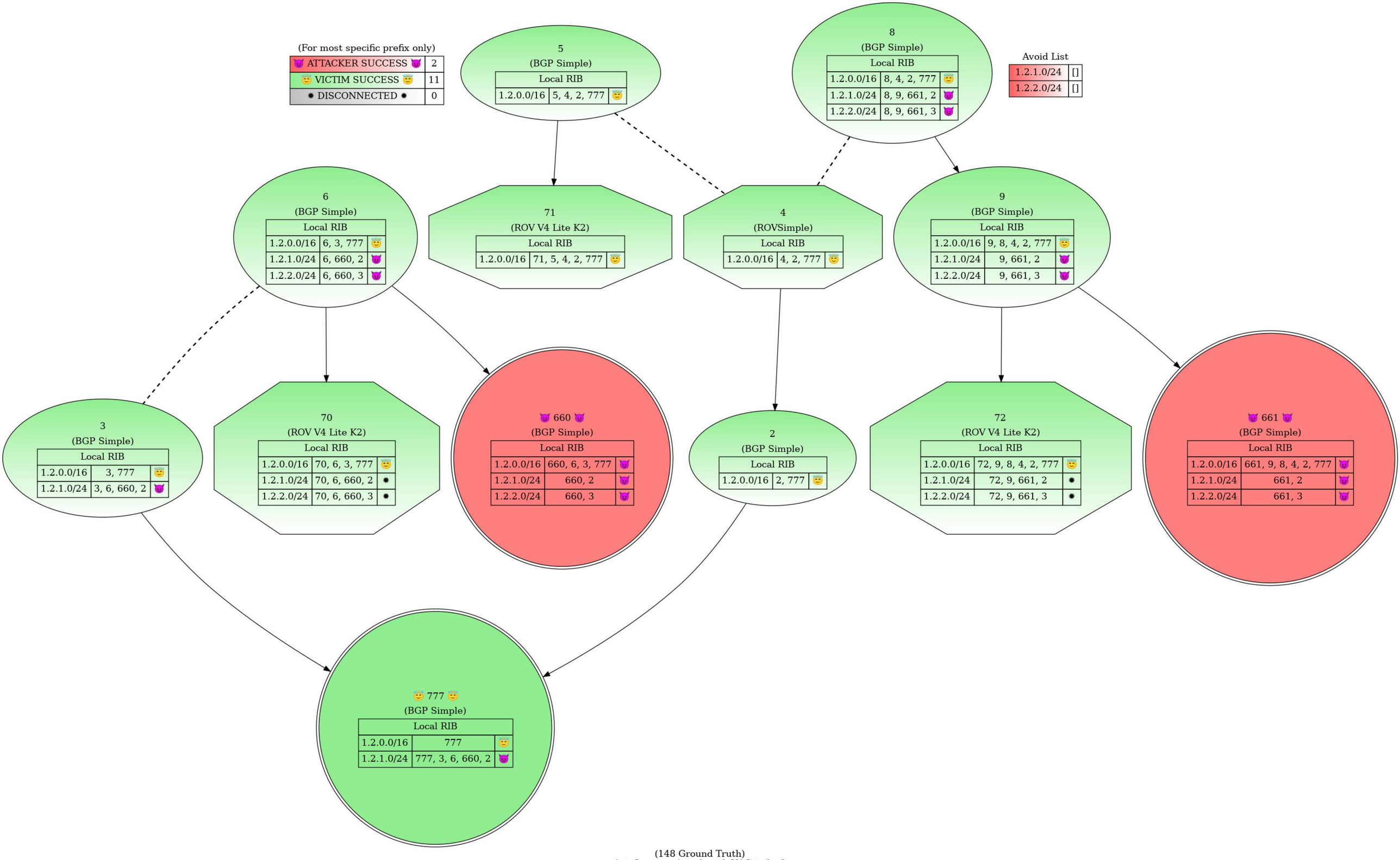

(147 Ground Truth)
AutoImmune Attack with V4 Lite K=2
Traceback for 1.2.1.0/24



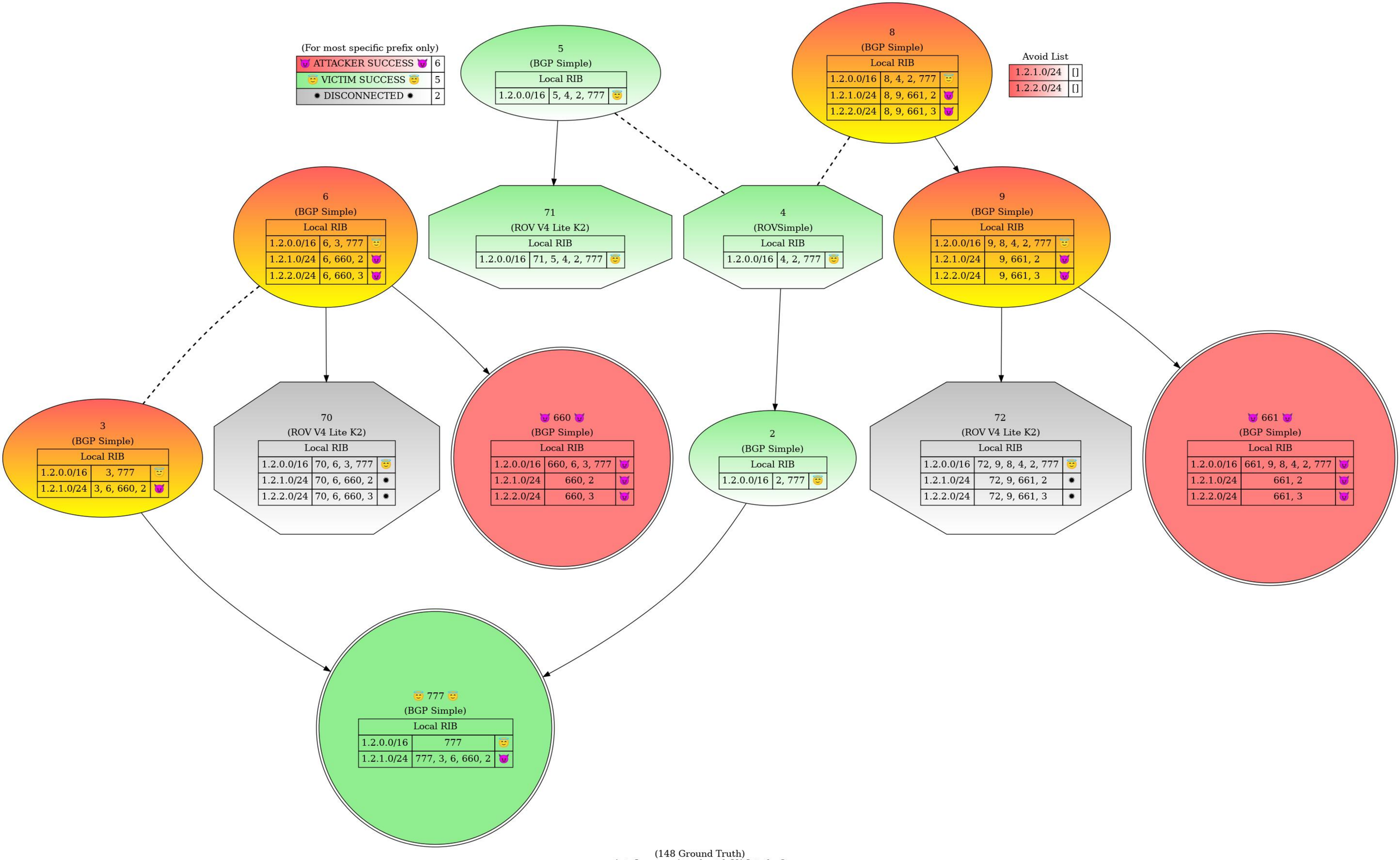

(147 Guess)
AutoImmune Attack with V4 Lite K=2
Traceback for 1.2.0.0/16



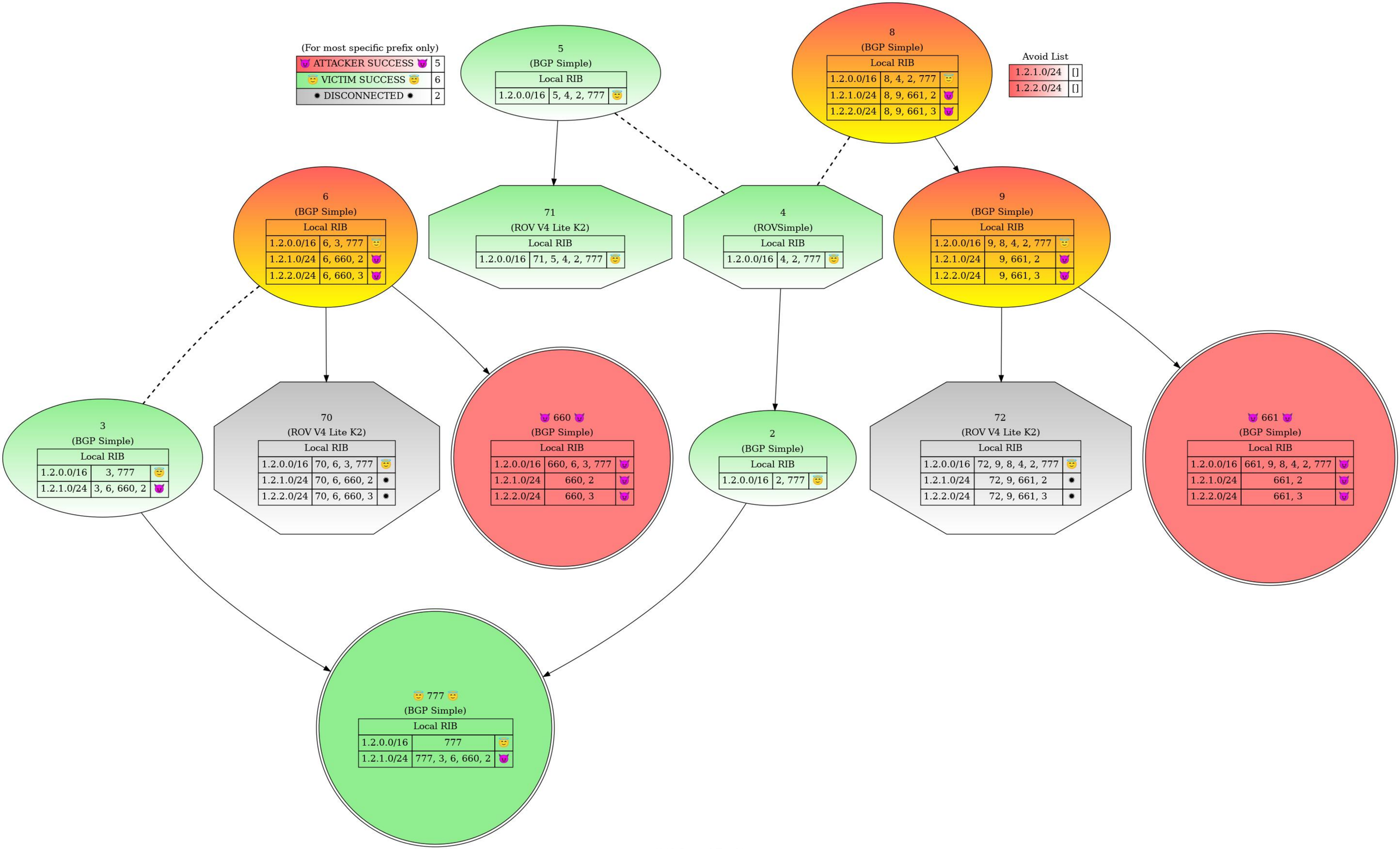

(147 Guess)
AutoImmune Attack with V4 Lite K=2
Traceback for 1.2.1.0/24



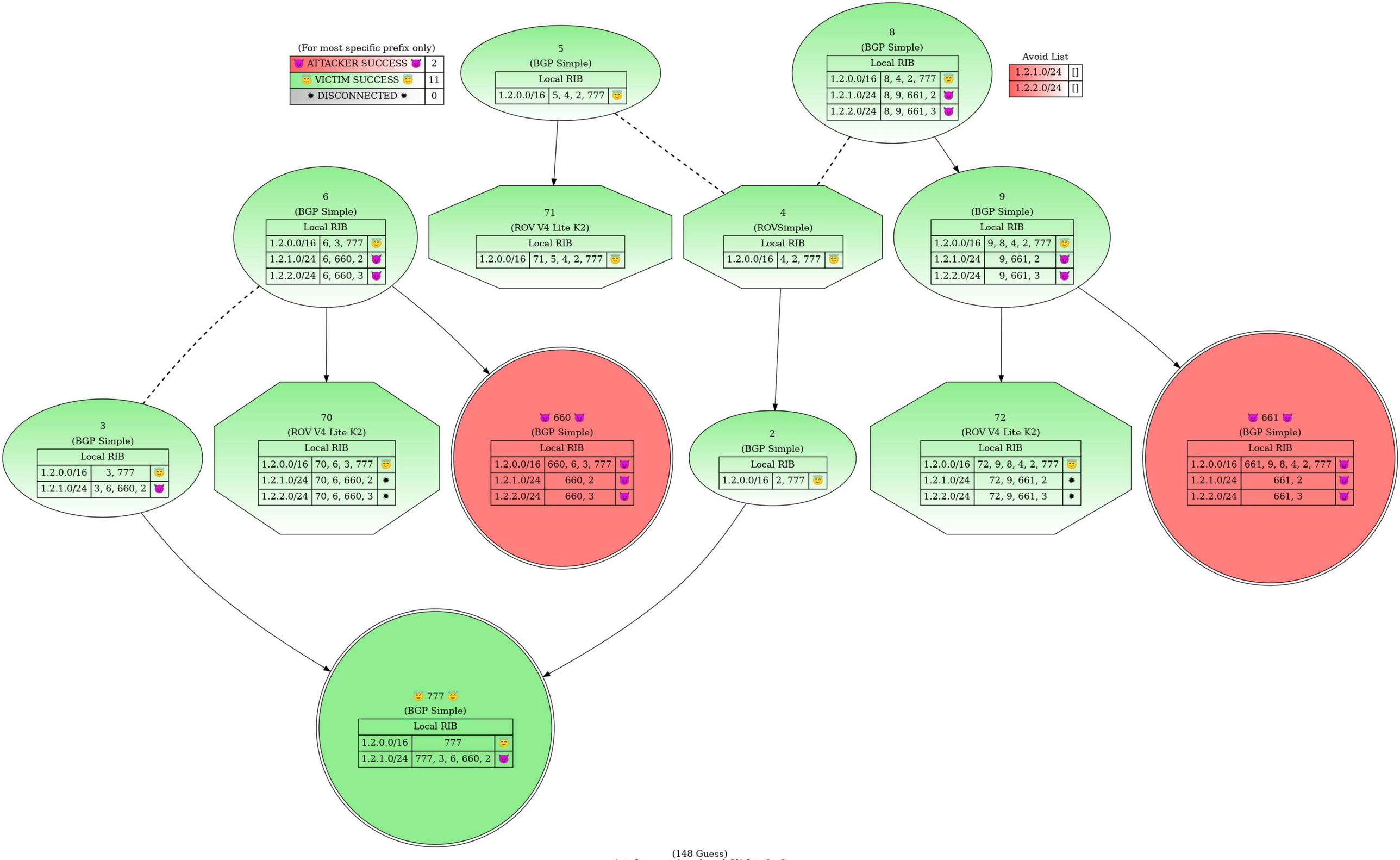

(148 Ground Truth)
AutoImmune Attack with V4 Lite k=2
Traceback for 1.2.0.0/16



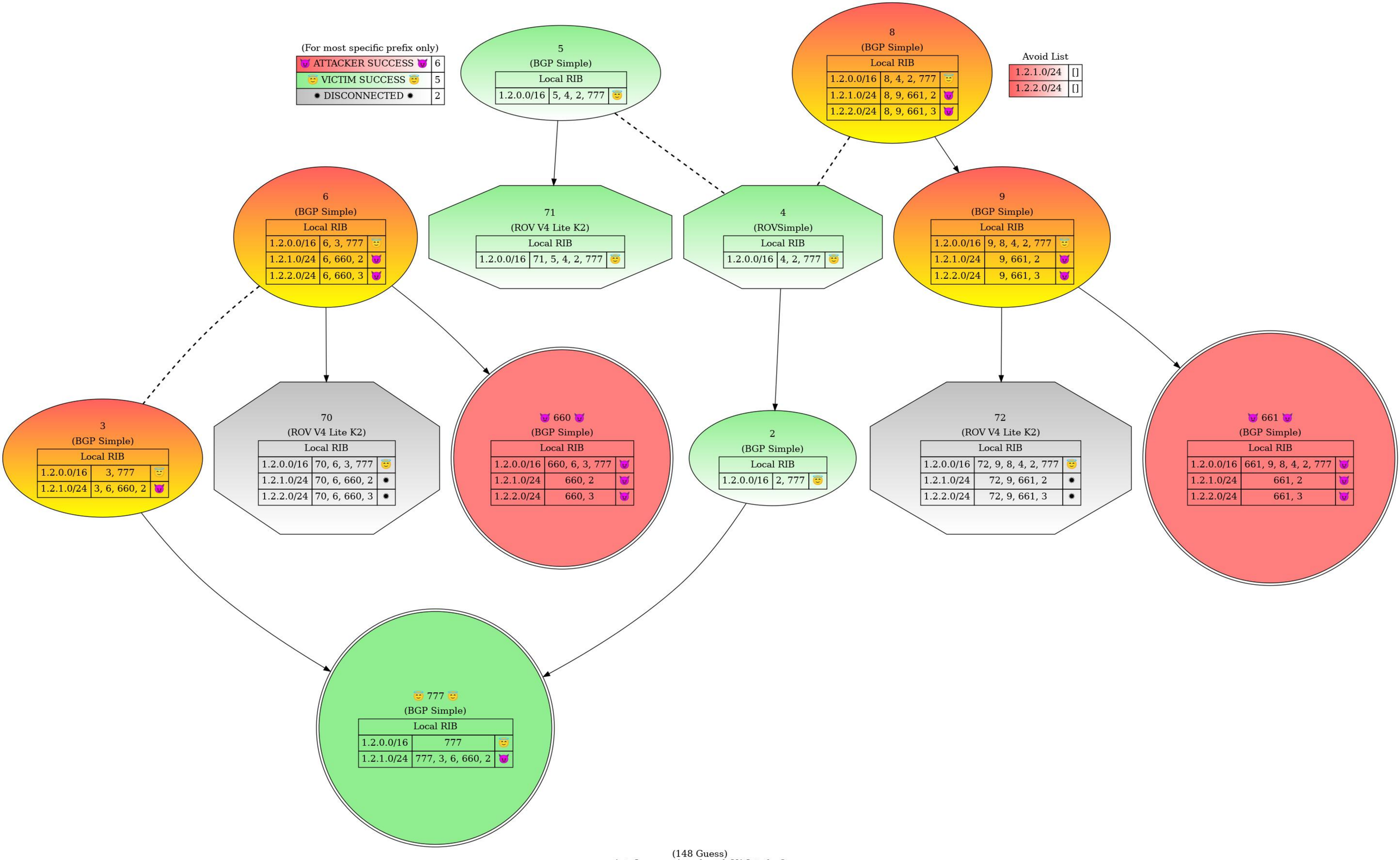

(148 Ground Truth)
AutoImmune Attack with V4 Lite k=2
Traceback for 1.2.1.0/24



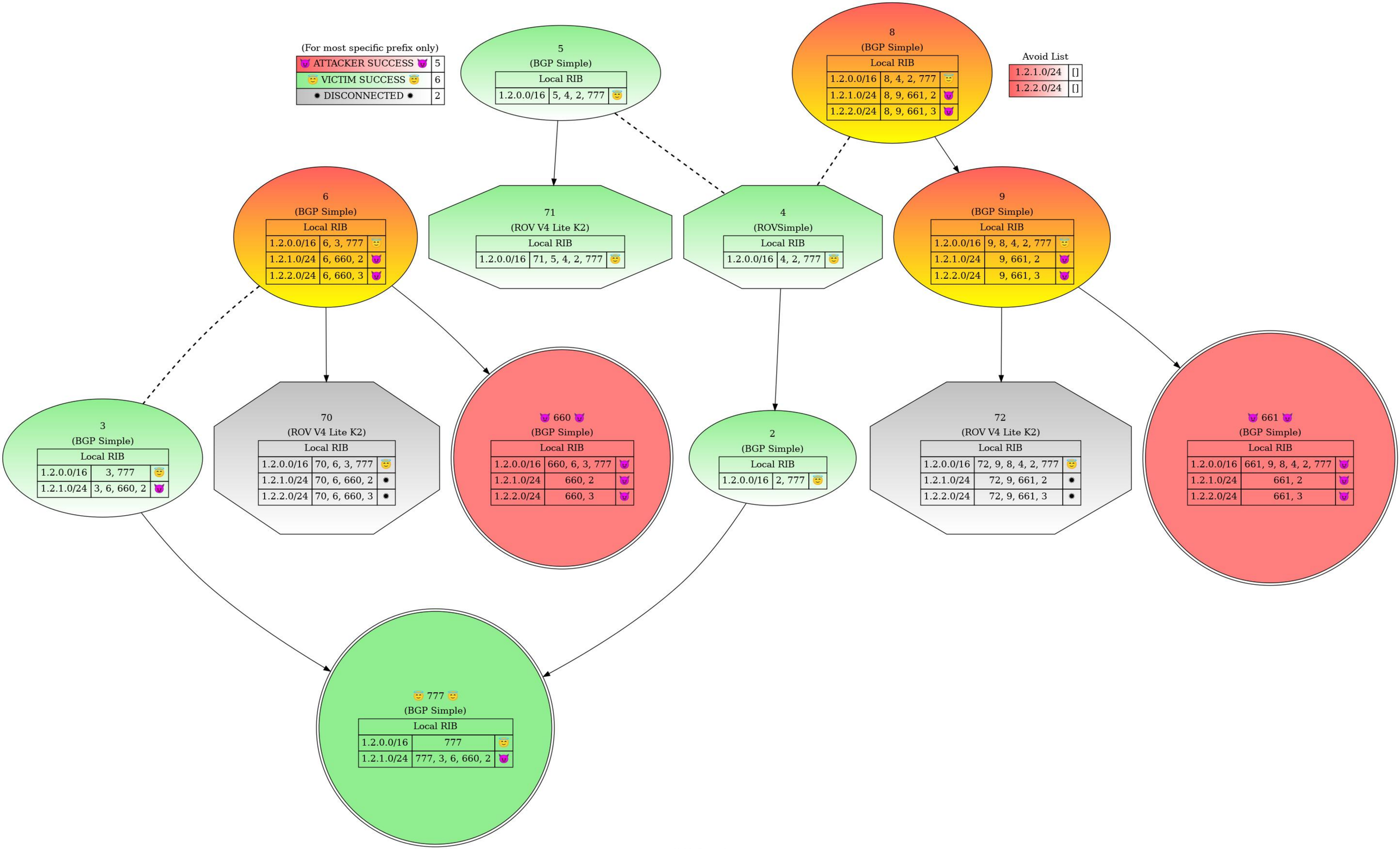

(148 Ground Truth)
AutoImmune Attack with V4 Lite k=2
Traceback for 1.2.2.0/24



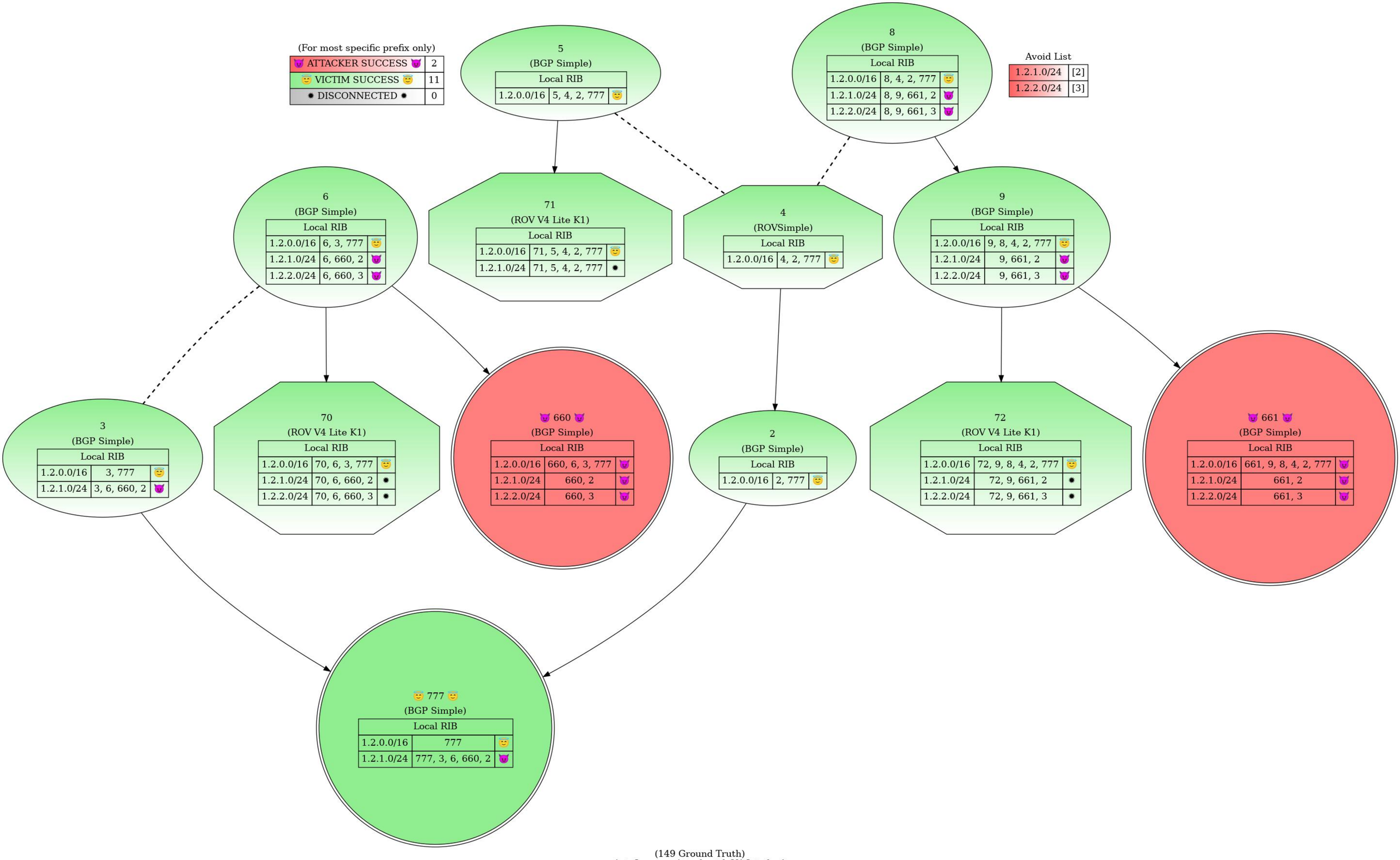

(148 Guess)
AutoImmune Attack with V4 Lite k=2
Traceback for 1.2.0.0/16



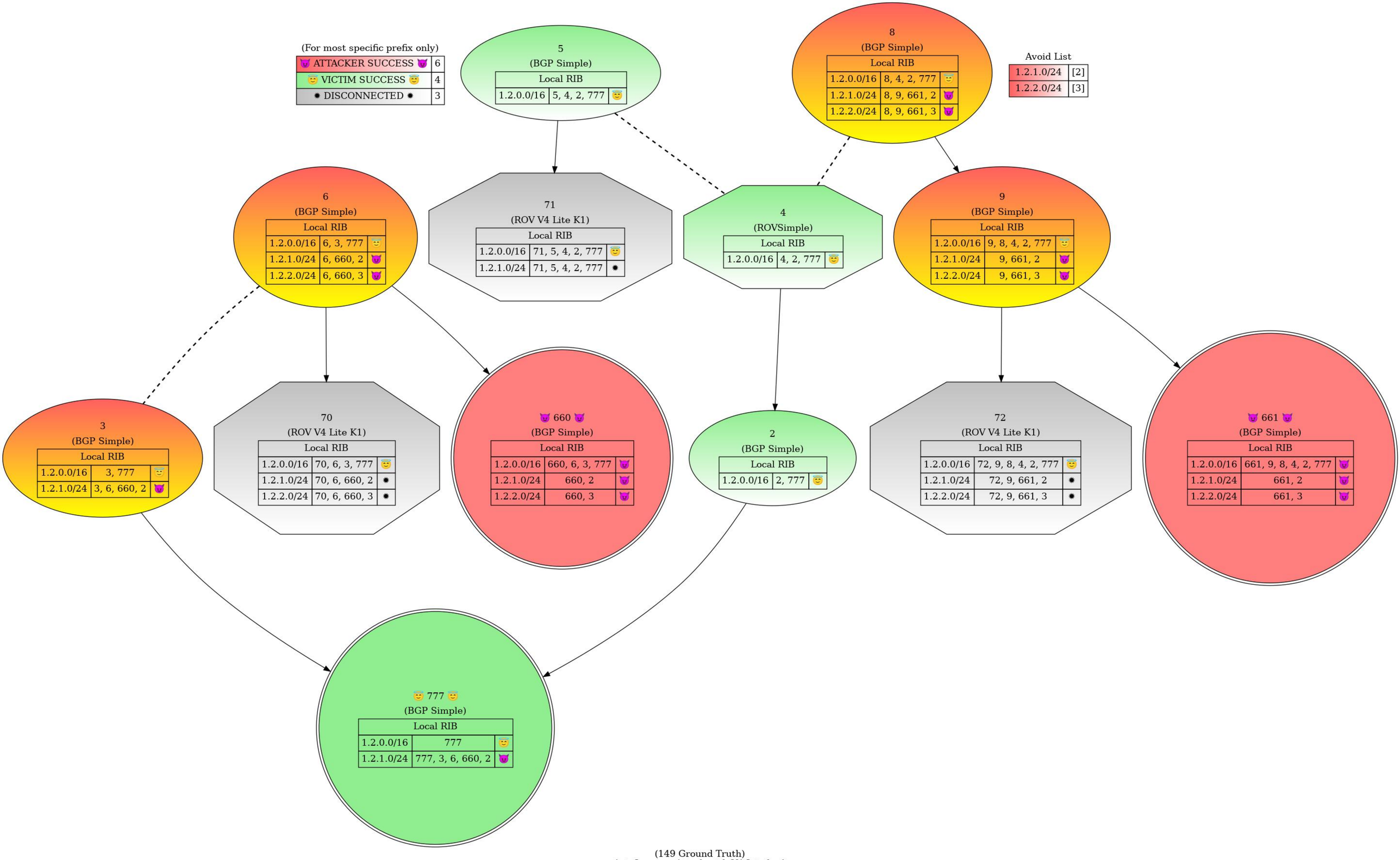

(148 Guess)
AutoImmune Attack with V4 Lite k=2
Traceback for 1.2.1.0/24



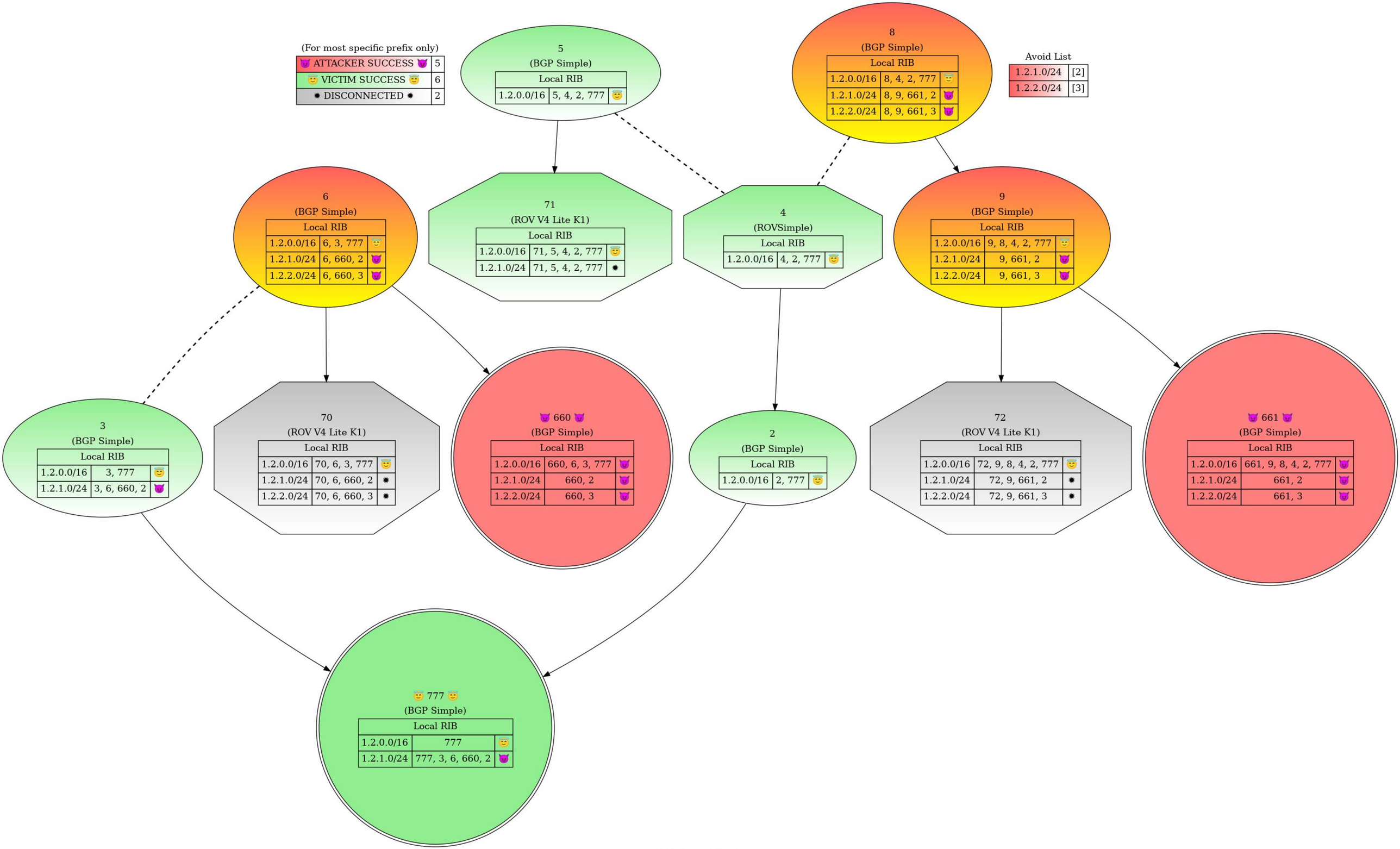

(148 Guess)
AutoImmune Attack with V4 Lite k=2
Traceback for 1.2.2.0/24



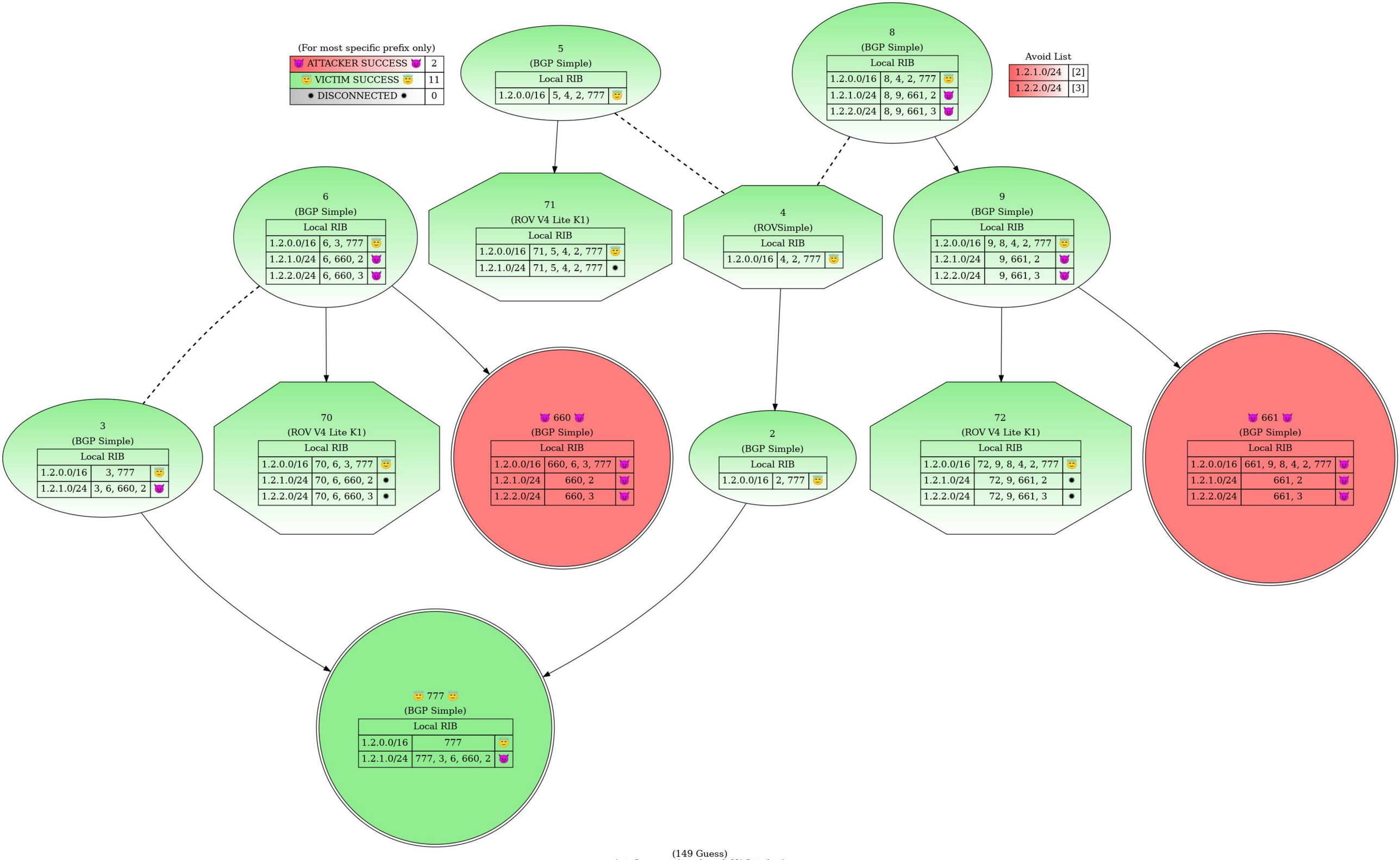

(149 Ground Truth)
AutoImmune Attack with V4 Lite k=1
Traceback for 1.2.0.0/16



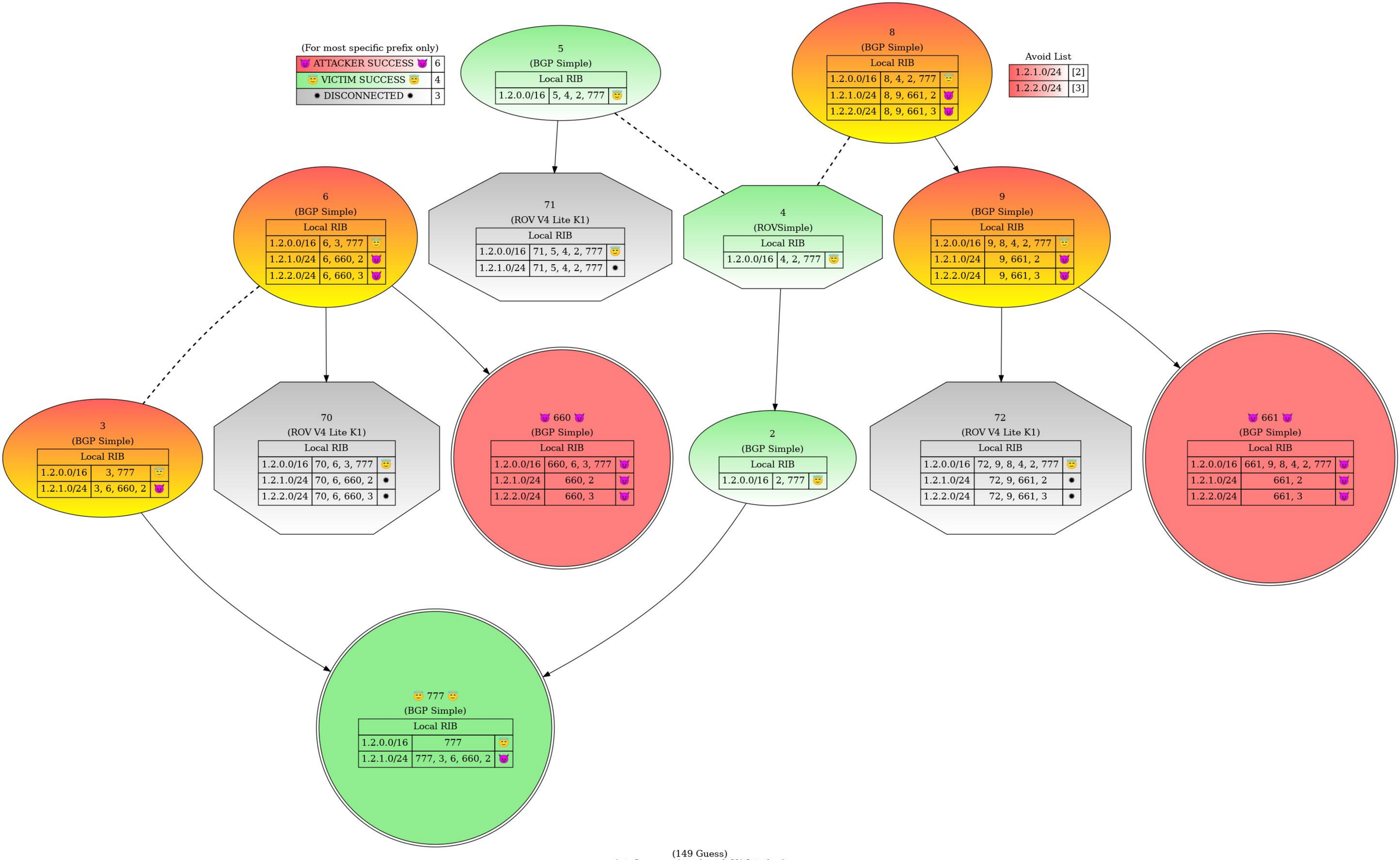

(149 Ground Truth)
AutoImmune Attack with V4 Lite k=1
Traceback for 1.2.1.0/24



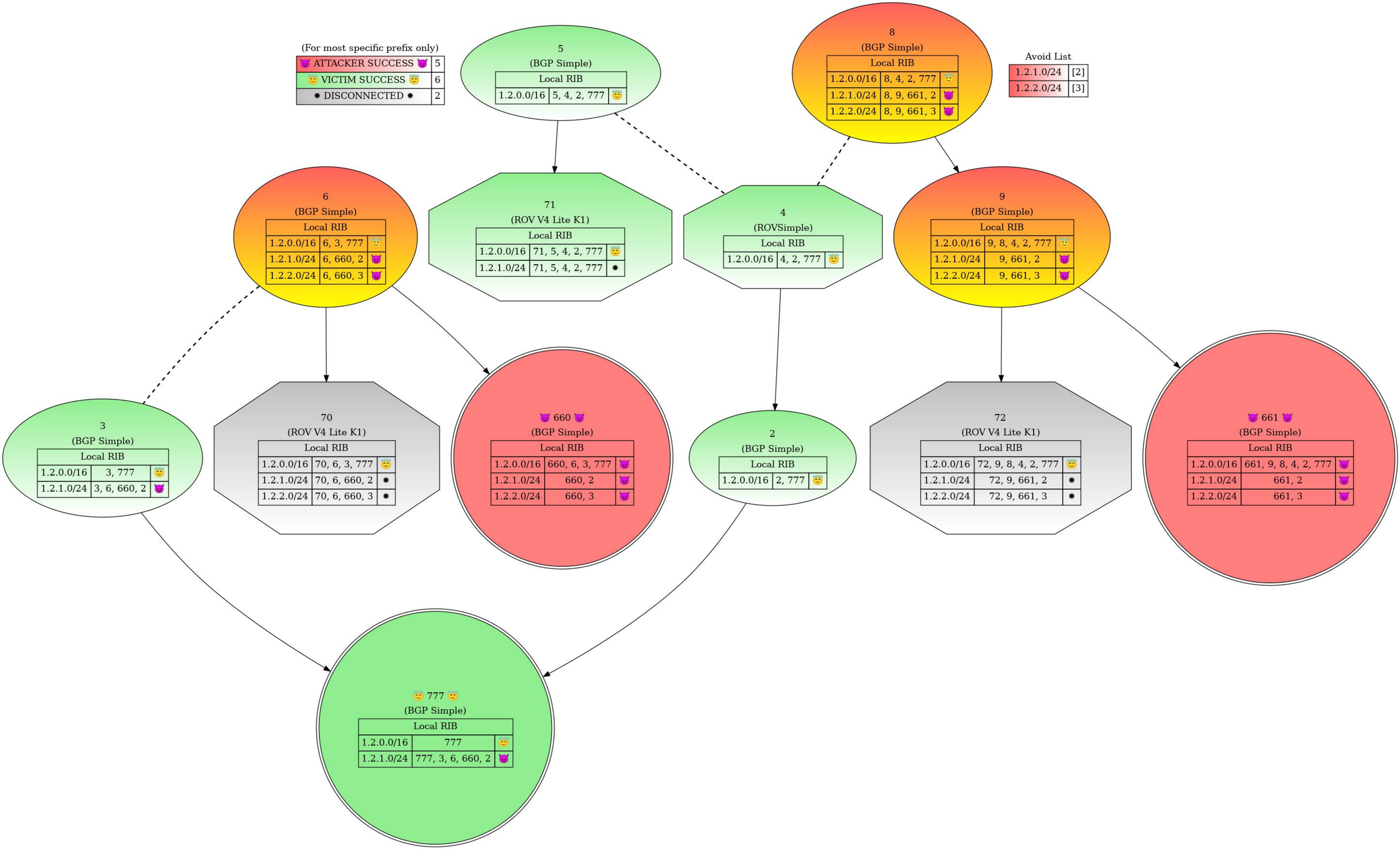

(149 Ground Truth)
AutoImmune Attack with V4 Lite k=1
Traceback for 1.2.2.0/24



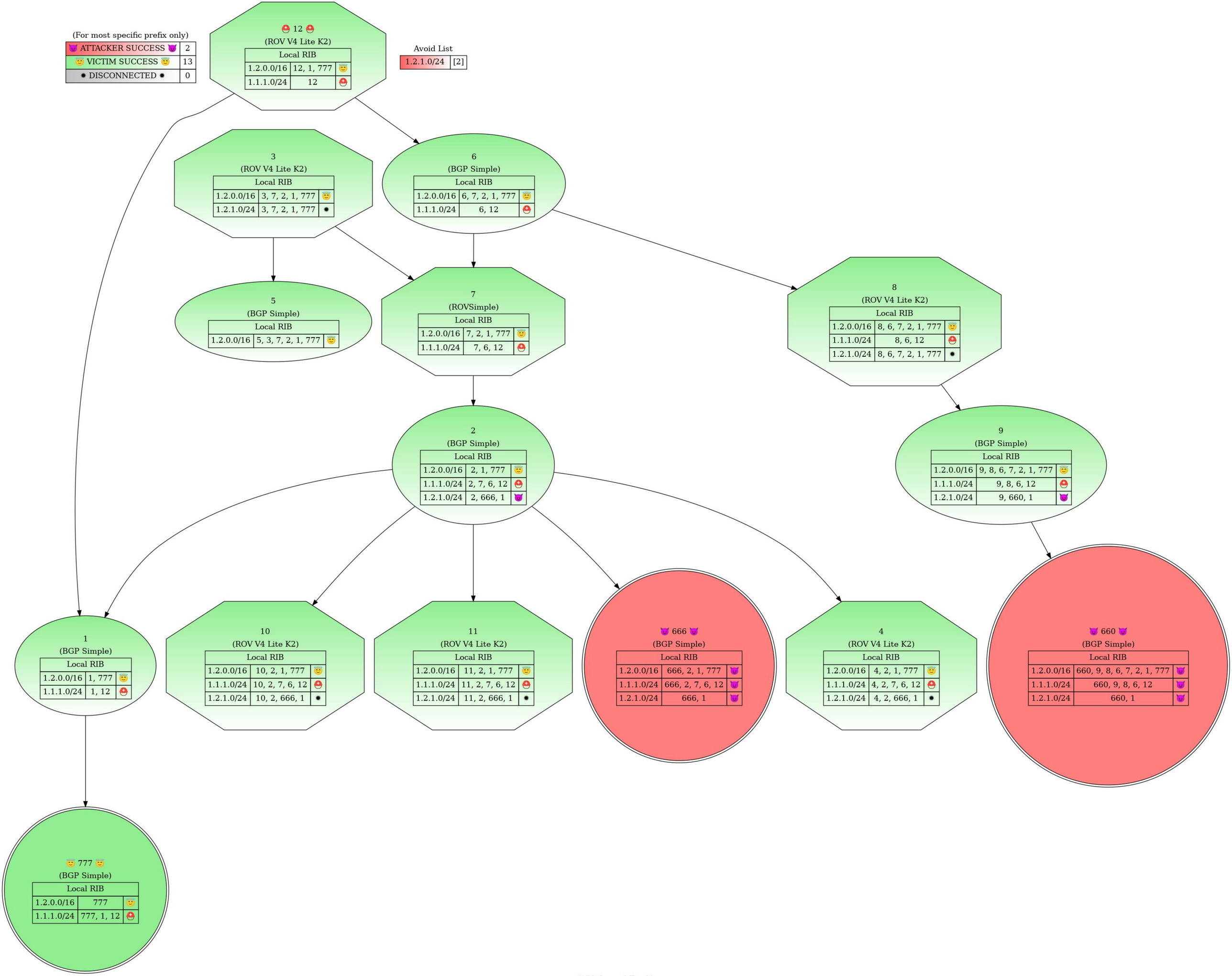

(149 Guess)
AutoImmune Attack with V4 Lite k=1
Traceback for 1.2.0.0/16



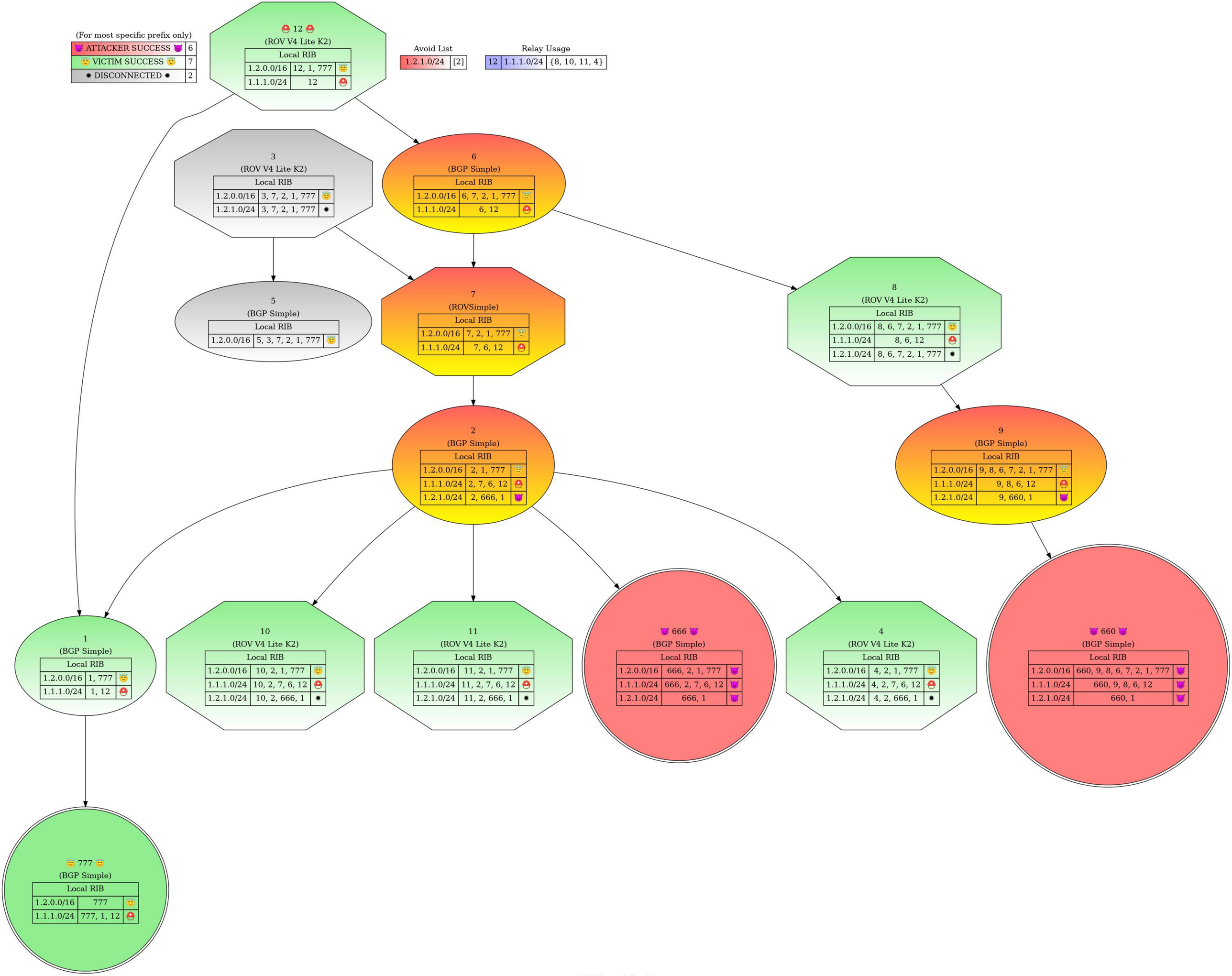

(149 Guess)
AutoImmune Attack with V4 Lite k=1
Traceback for 1.2.1.0/24




(149 Guess)
AutoImmune Attack with V4 Lite k=1
Traceback for 1.2.2.0/24




(150 Ground Truth)
AutoImmune Attack with V4 Lite K=2
Traceback for 1.2.0.0/16



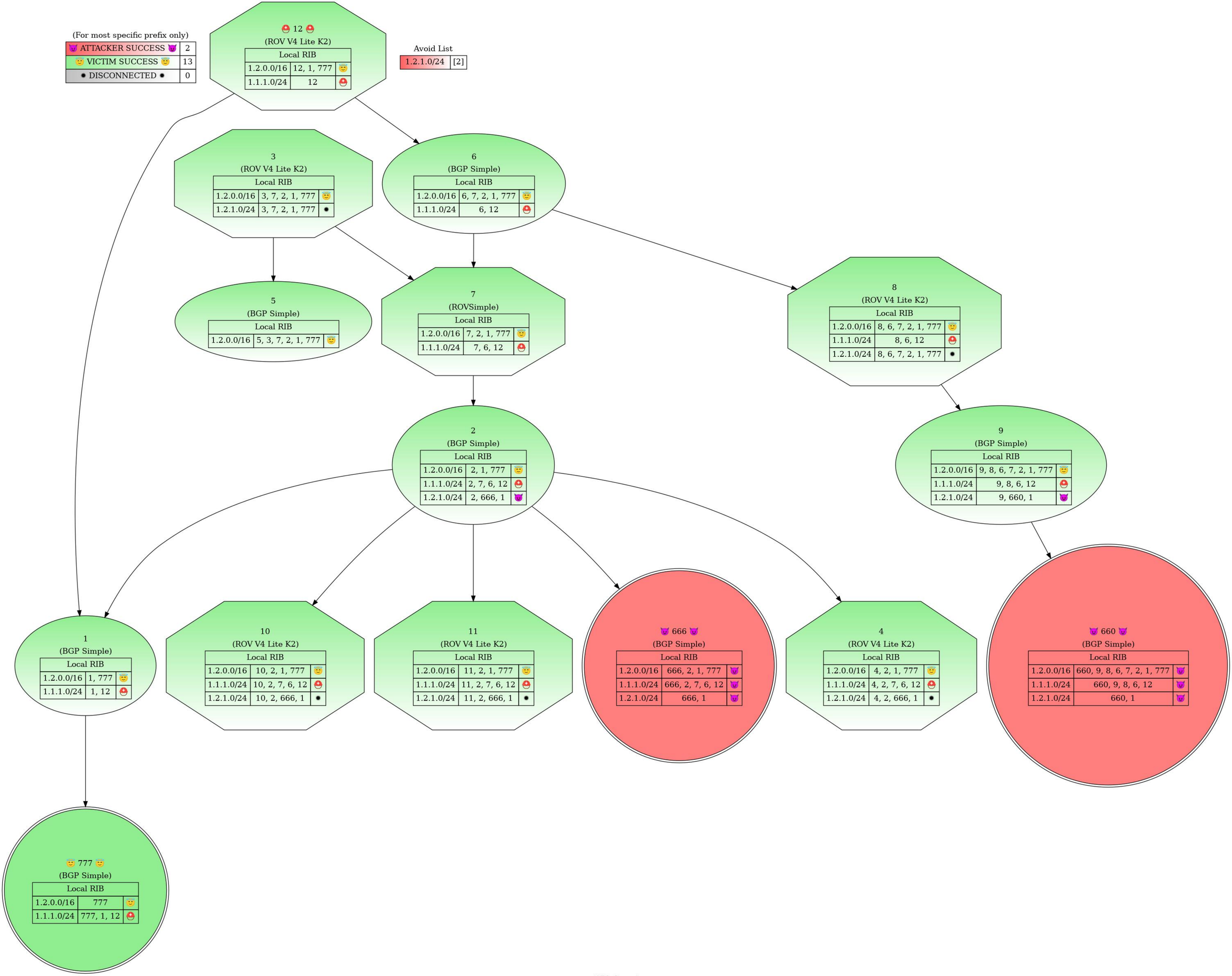

(150 Ground Truth)
AutoImmune Attack with V4 Lite K=2
Traceback for 1.2.1.0/24

(For most specific prefix only)

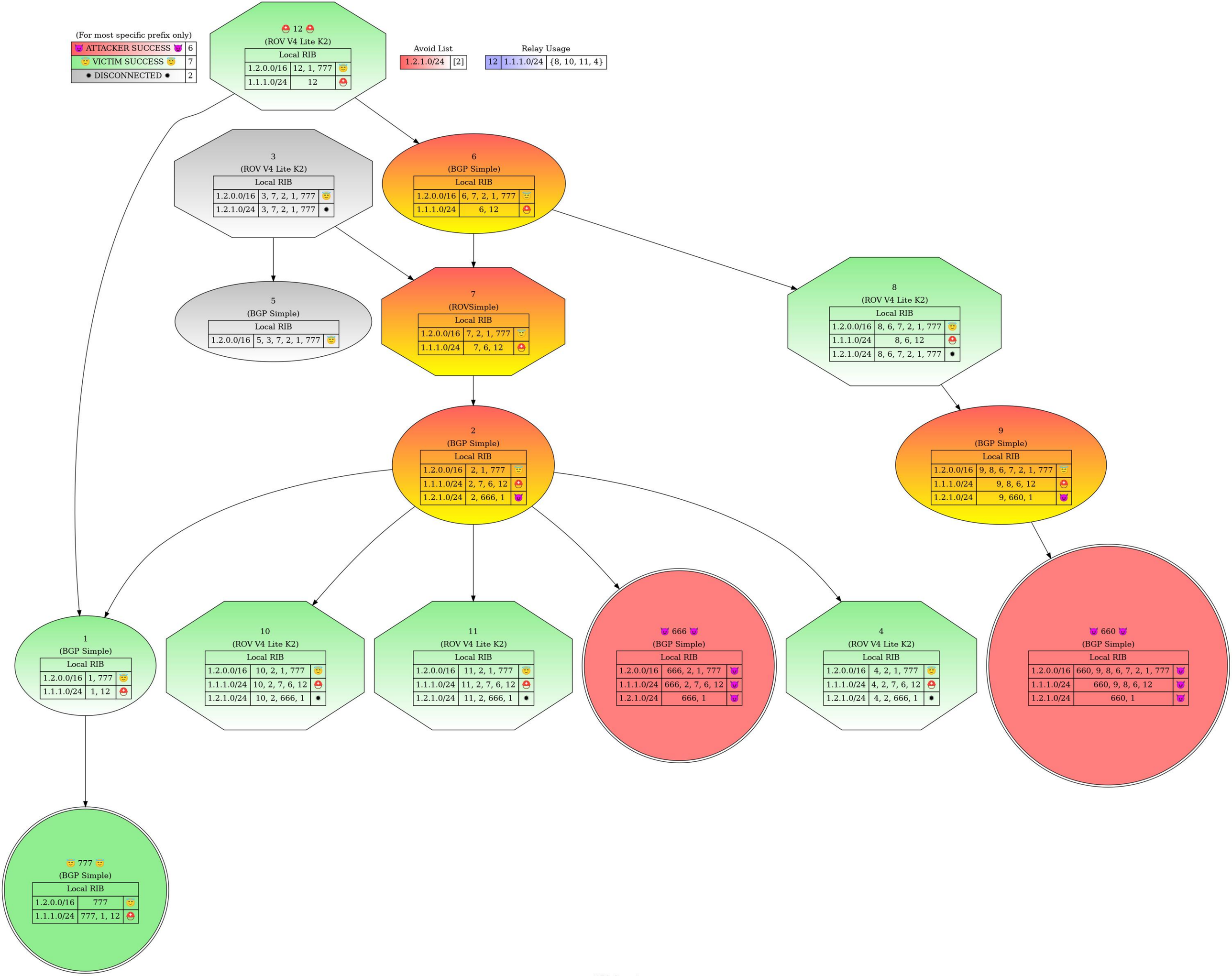
| | |
|---|---|
| 😈 ATTACKER SUCCESS 😈 | 2 |
| 😇 VICTIM SUCCESS 😇 | 13 |
| ✹ DISCONNECTED ✹ | 0 |

Avoid List

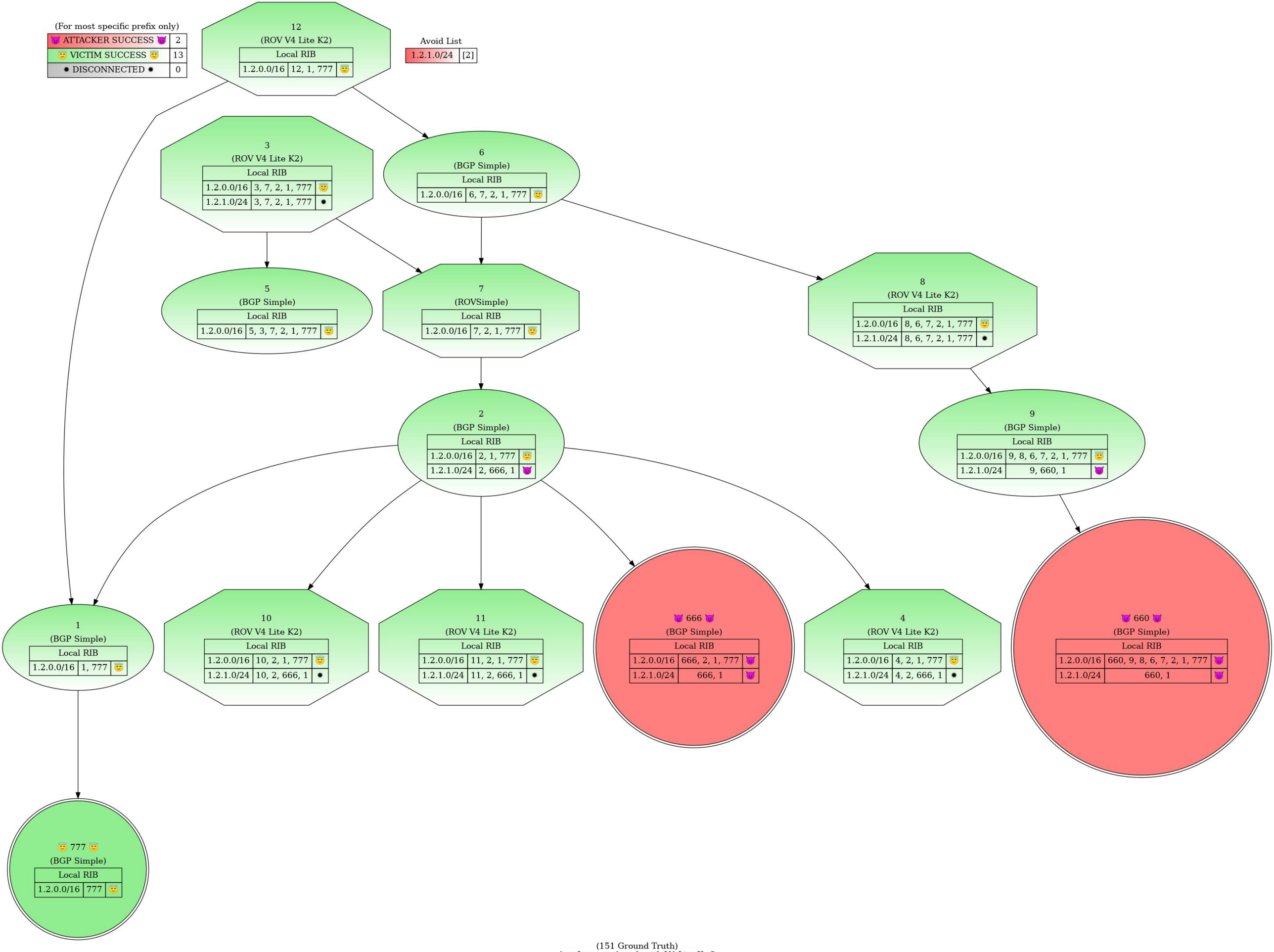
| | |
|---|---|
| 1.2.1.0/24 | [2] |



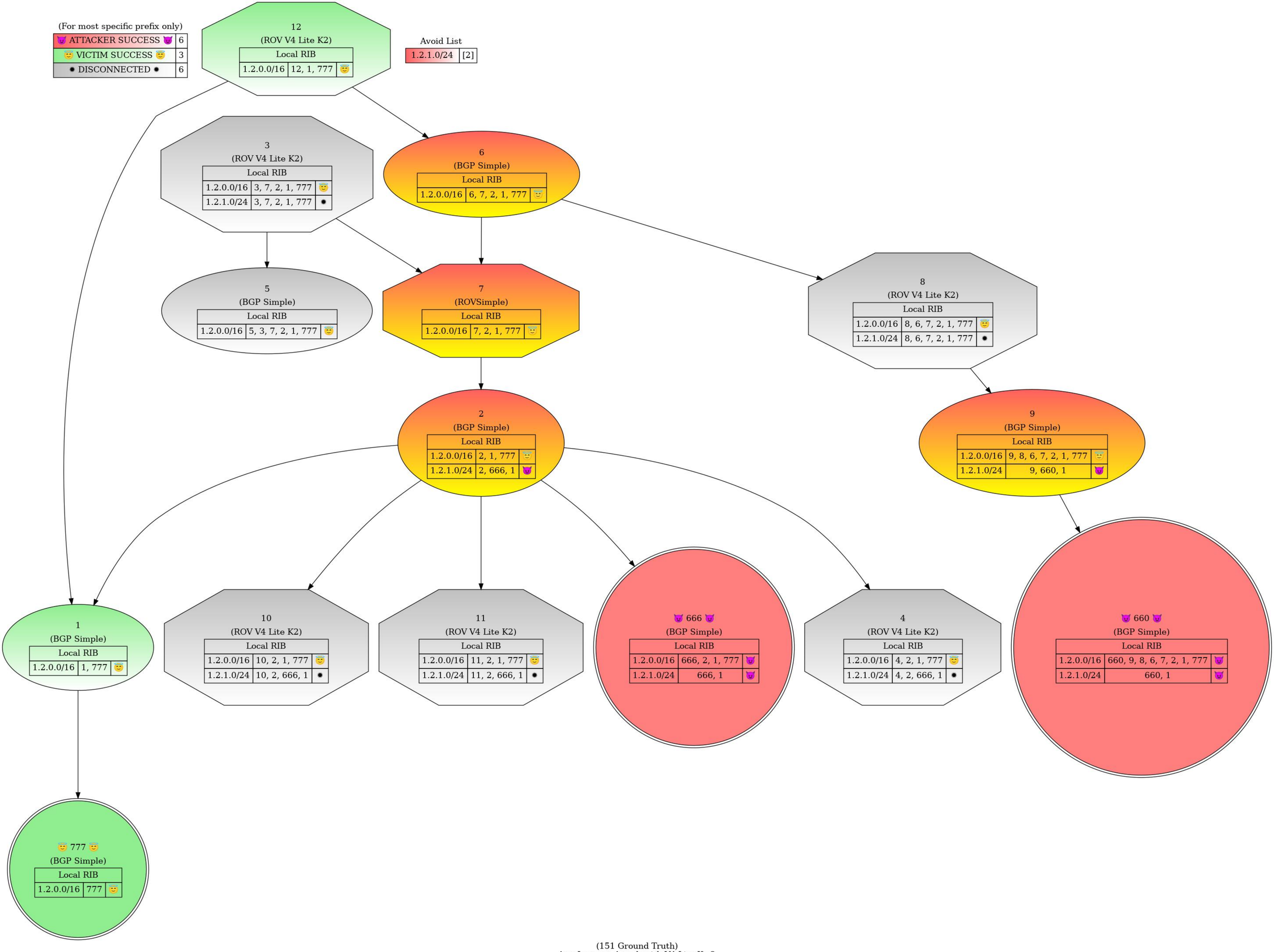

(150 Guess)
AutoImmune Attack with V4 Lite K=2
Traceback for 1.2.0.0/16



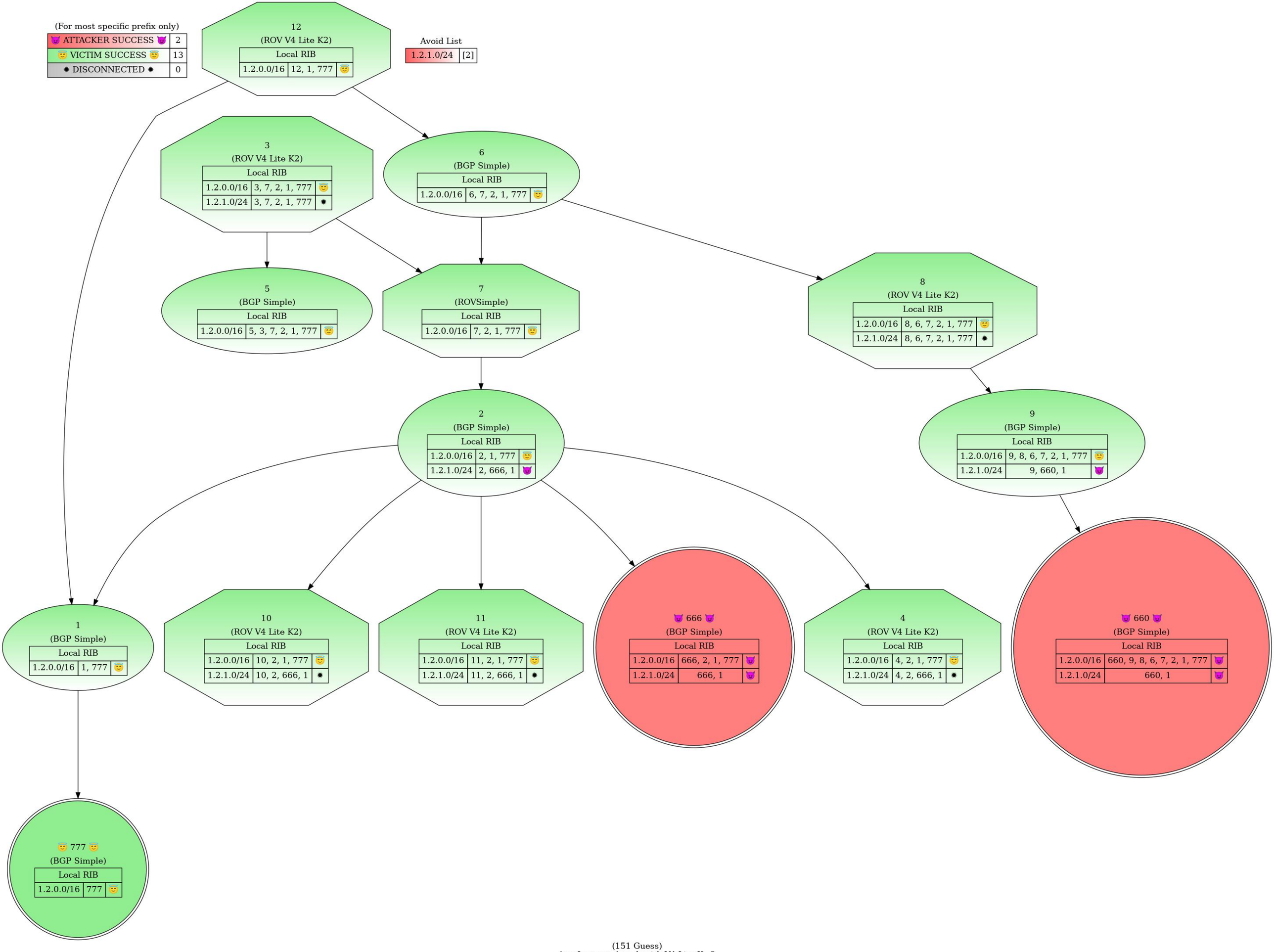

(150 Guess)
AutoImmune Attack with V4 Lite K=2
Traceback for 1.2.1.0/24



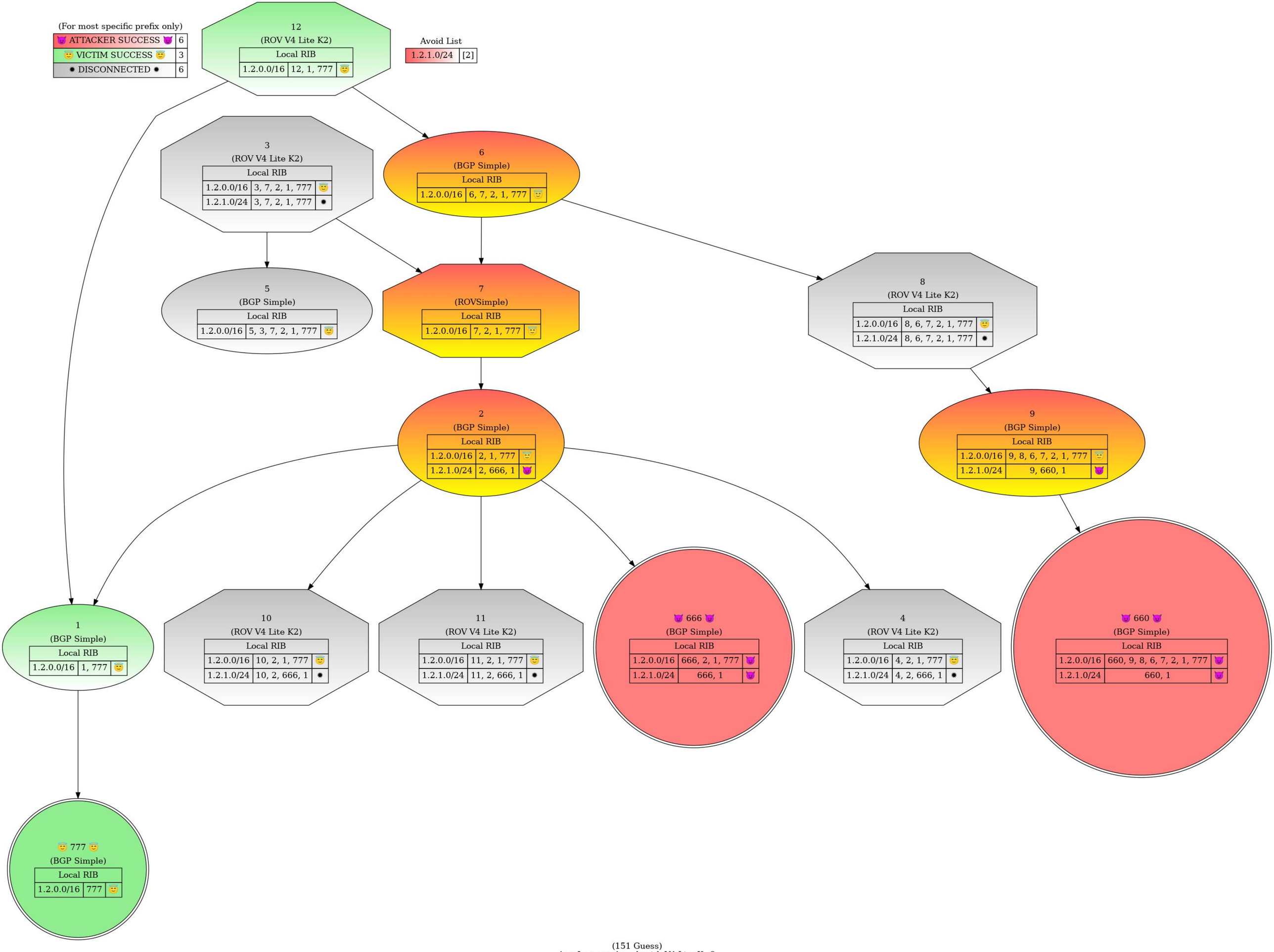

(151 Ground Truth)
AutoImmune Attack with V4 Lite K=2
Traceback for 1.2.0.0/16



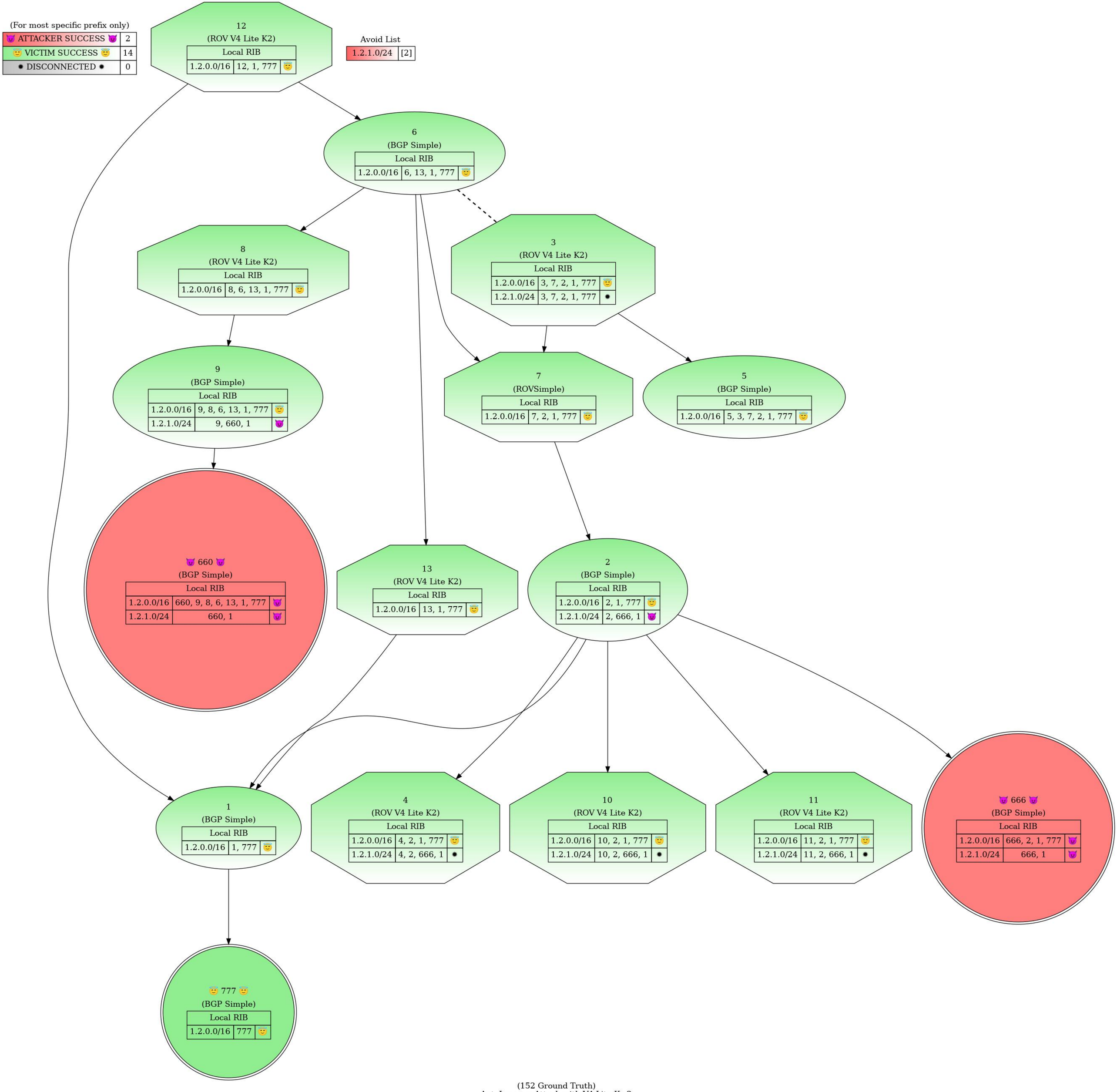

(151 Ground Truth)
AutoImmune Attack with V4 Lite K=2
Traceback for 1.2.1.0/24



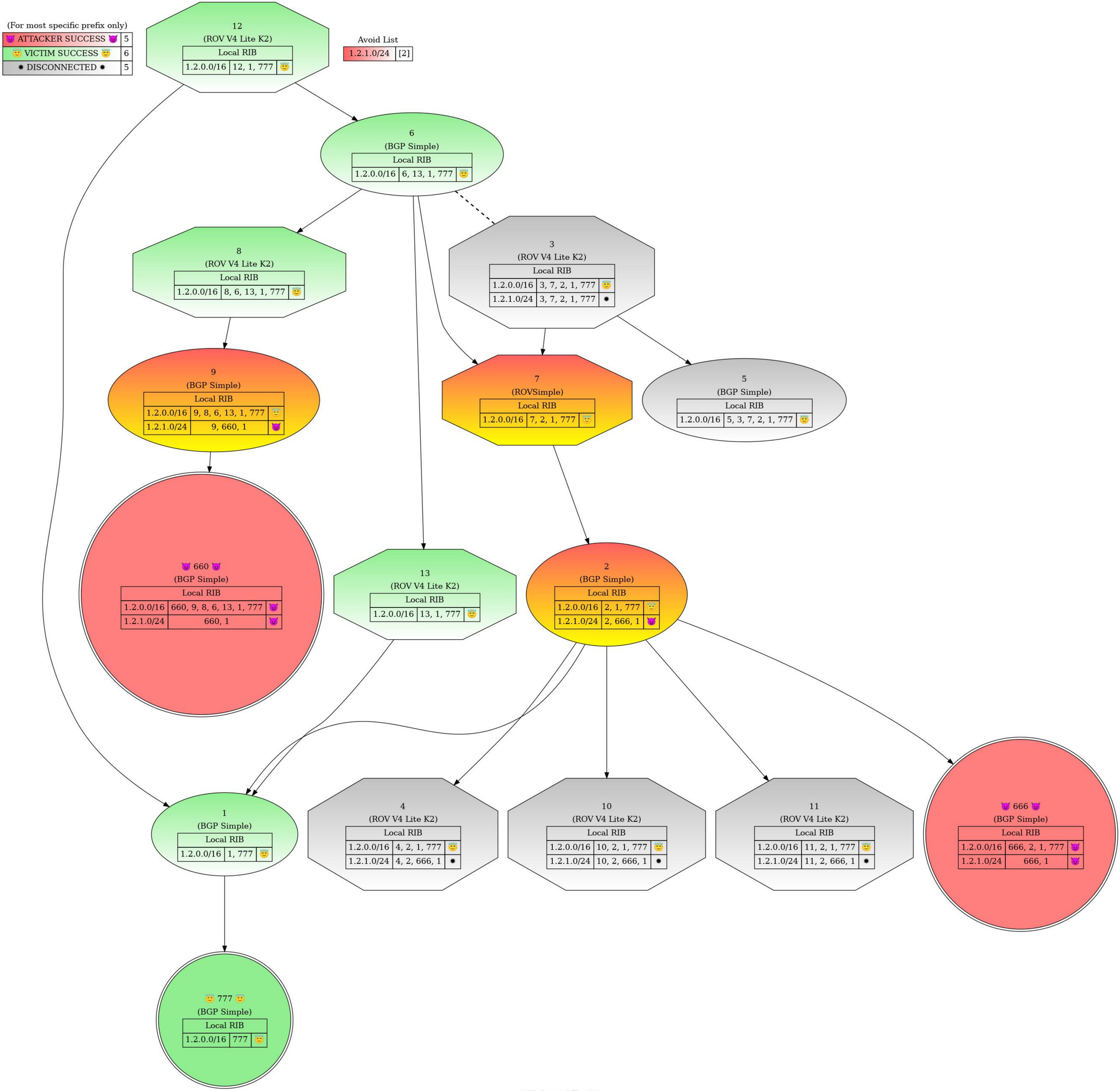

(151 Guess)
AutoImmune Attack with V4 Lite K=2
Traceback for 1.2.0.0/16



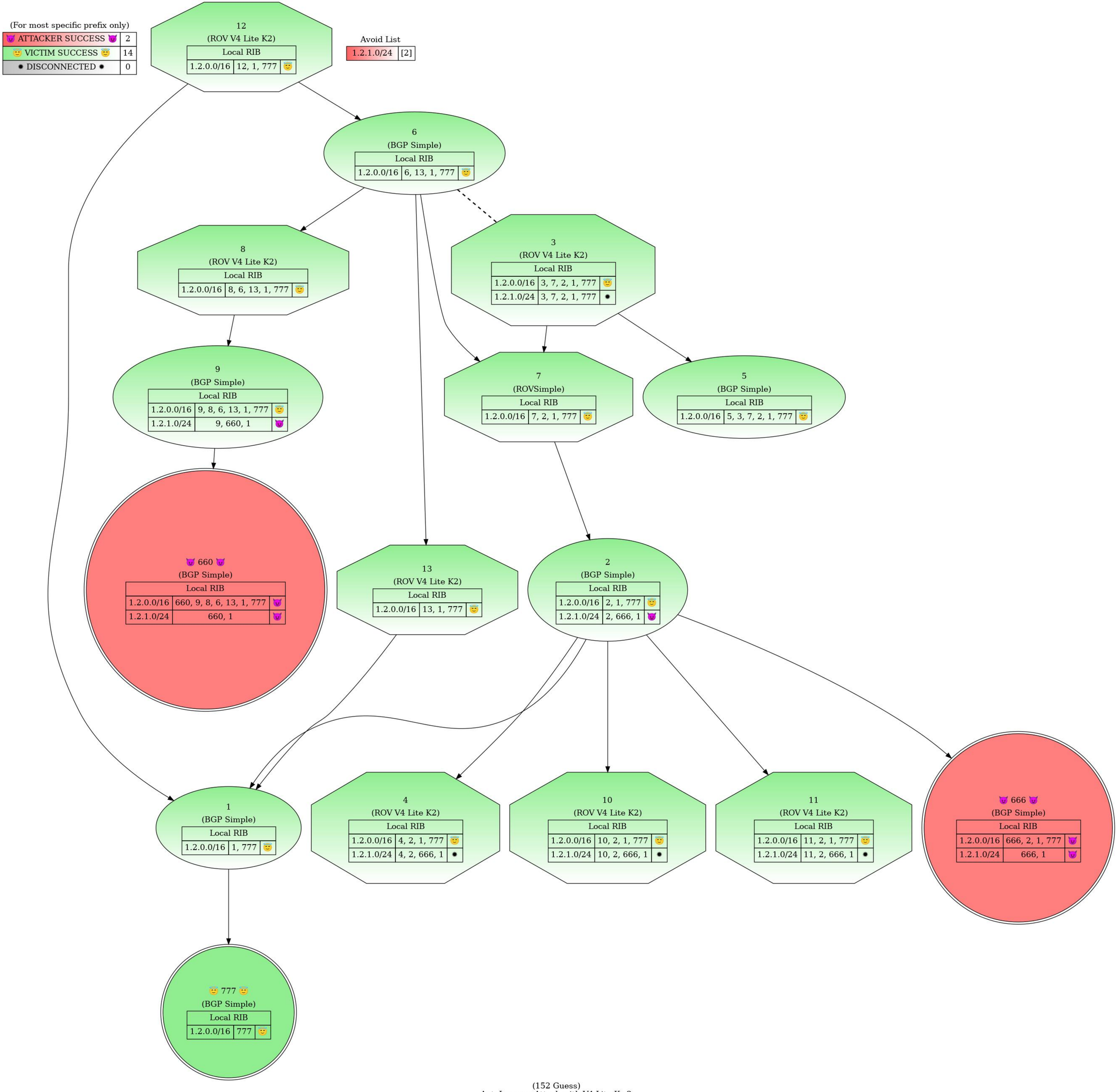

(151 Guess)
AutoImmune Attack with V4 Lite K=2
Traceback for 1.2.1.0/24



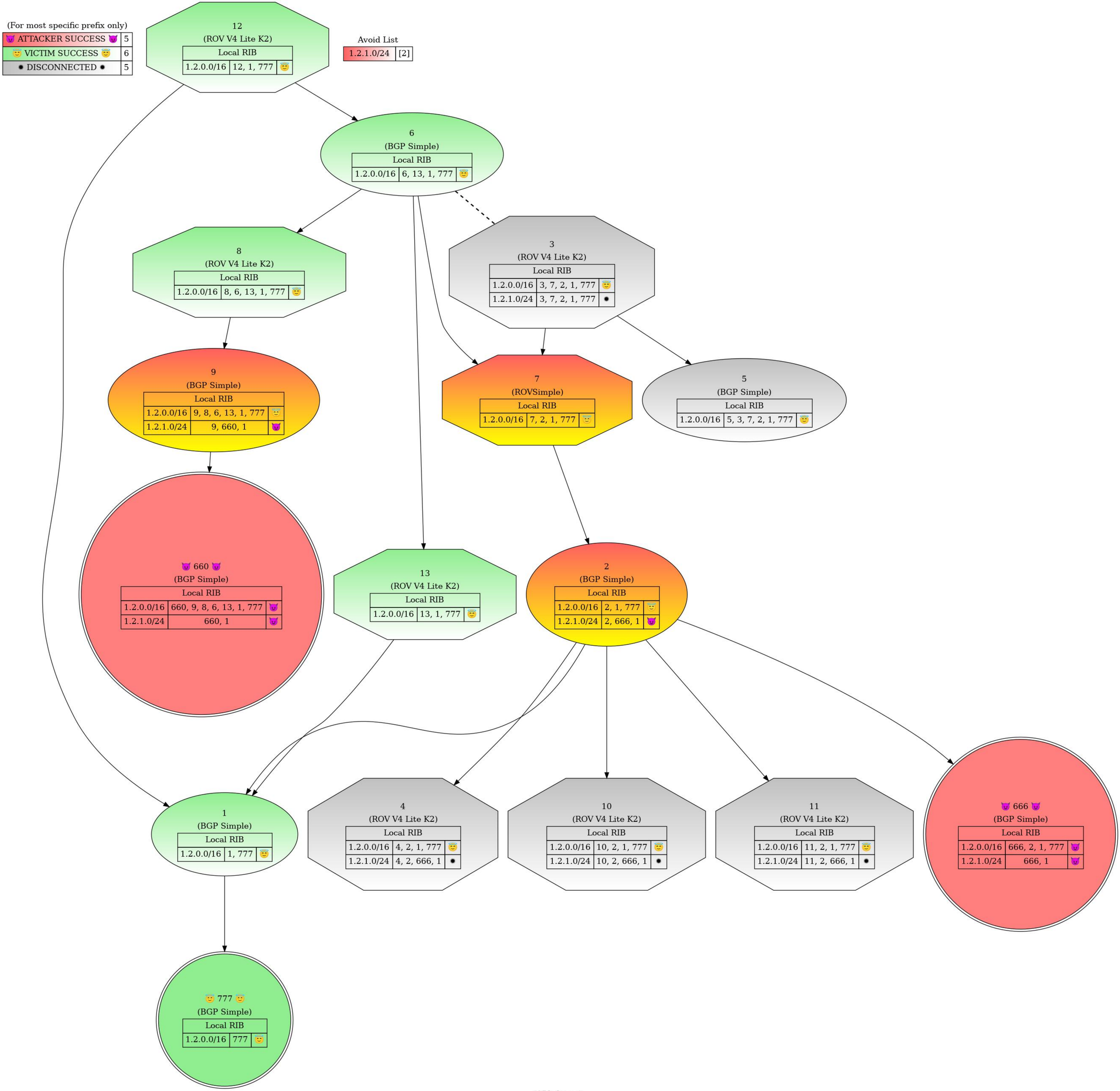

(152 Ground Truth)
AutoImmune Attack with V4 Lite K=2
Traceback for 1.2.0.0/16



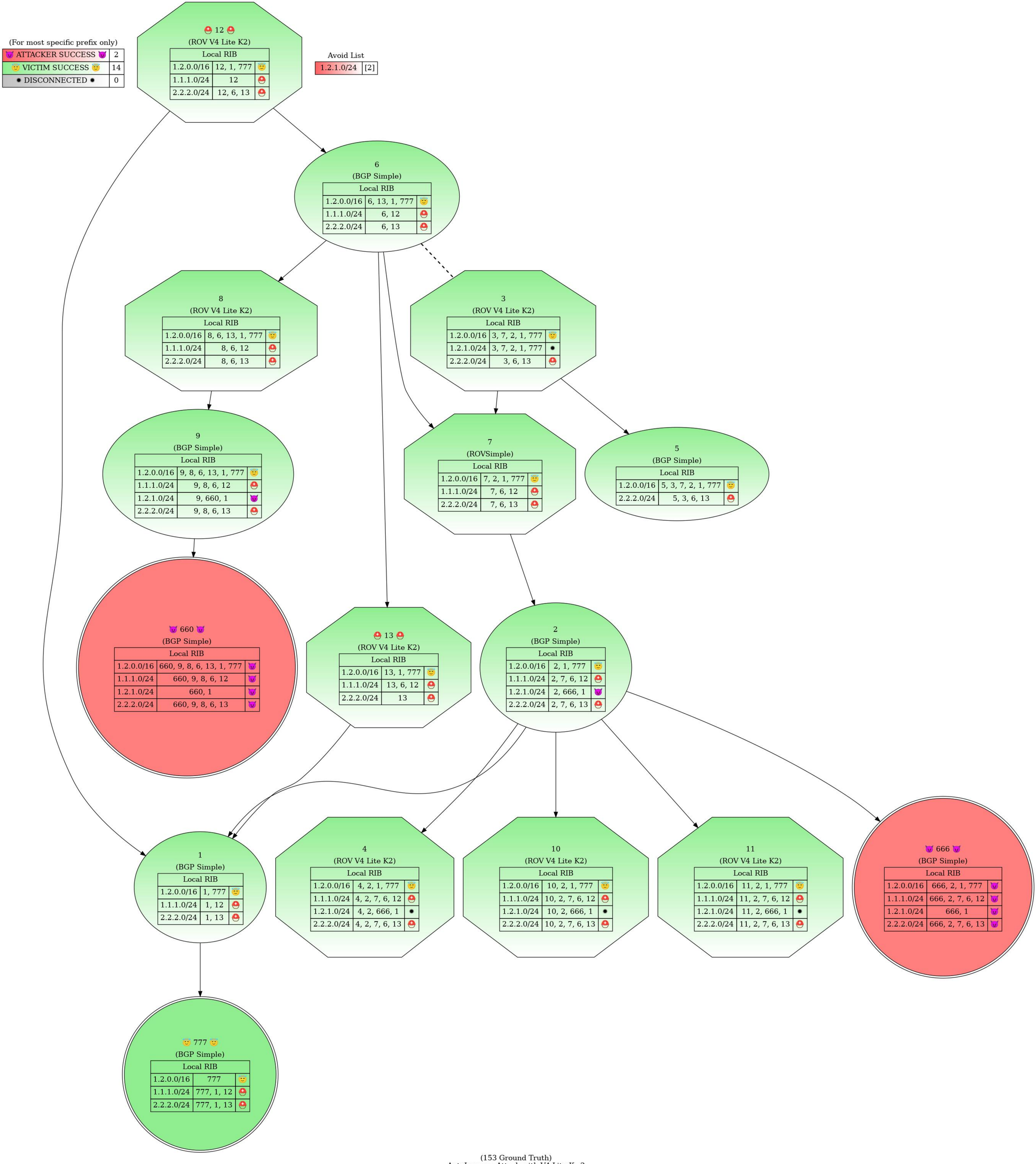

(152 Ground Truth)
AutoImmune Attack with V4 Lite K=2
Traceback for 1.2.1.0/24



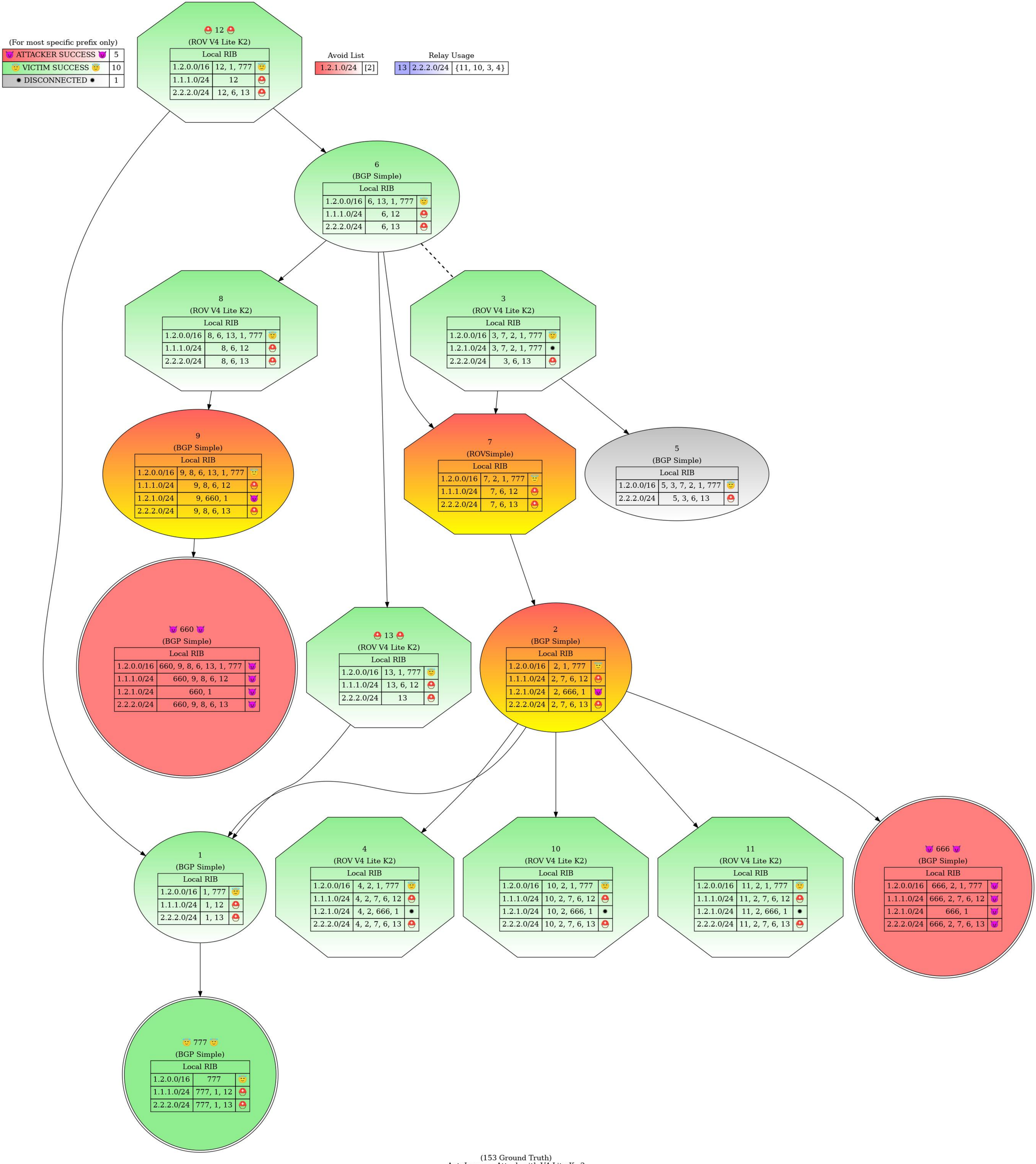

(152 Guess)
AutoImmune Attack with V4 Lite K=2
Traceback for 1.2.0.0/16



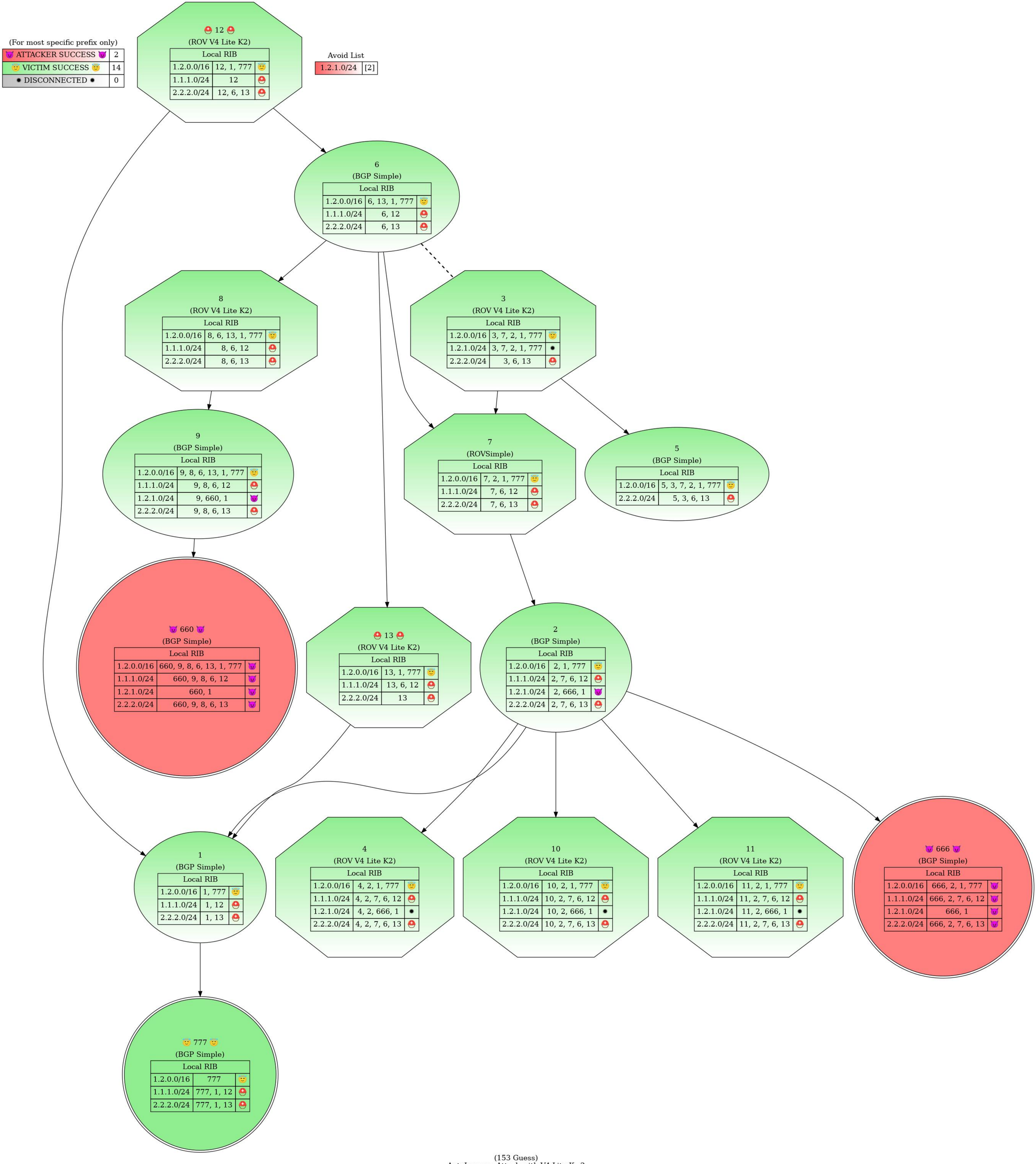

(152 Guess)
AutoImmune Attack with V4 Lite K=2
Traceback for 1.2.1.0/24



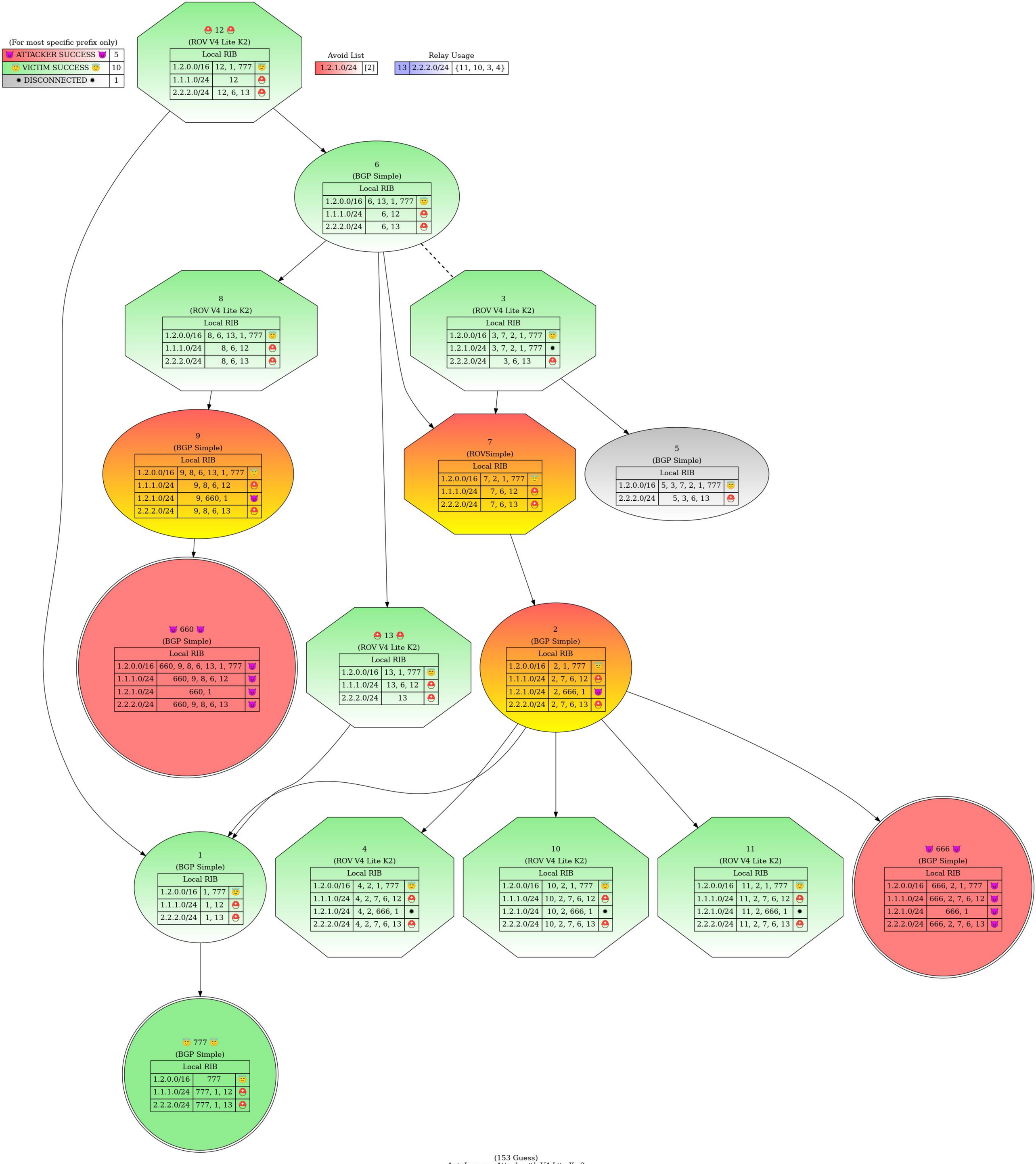

(153 Ground Truth)
AutoImmune Attack with V4 Lite K=2
Traceback for 1.2.0.0/16




(153 Ground Truth)
AutoImmune Attack with V4 Lite K=2
Traceback for 1.2.1.0/24



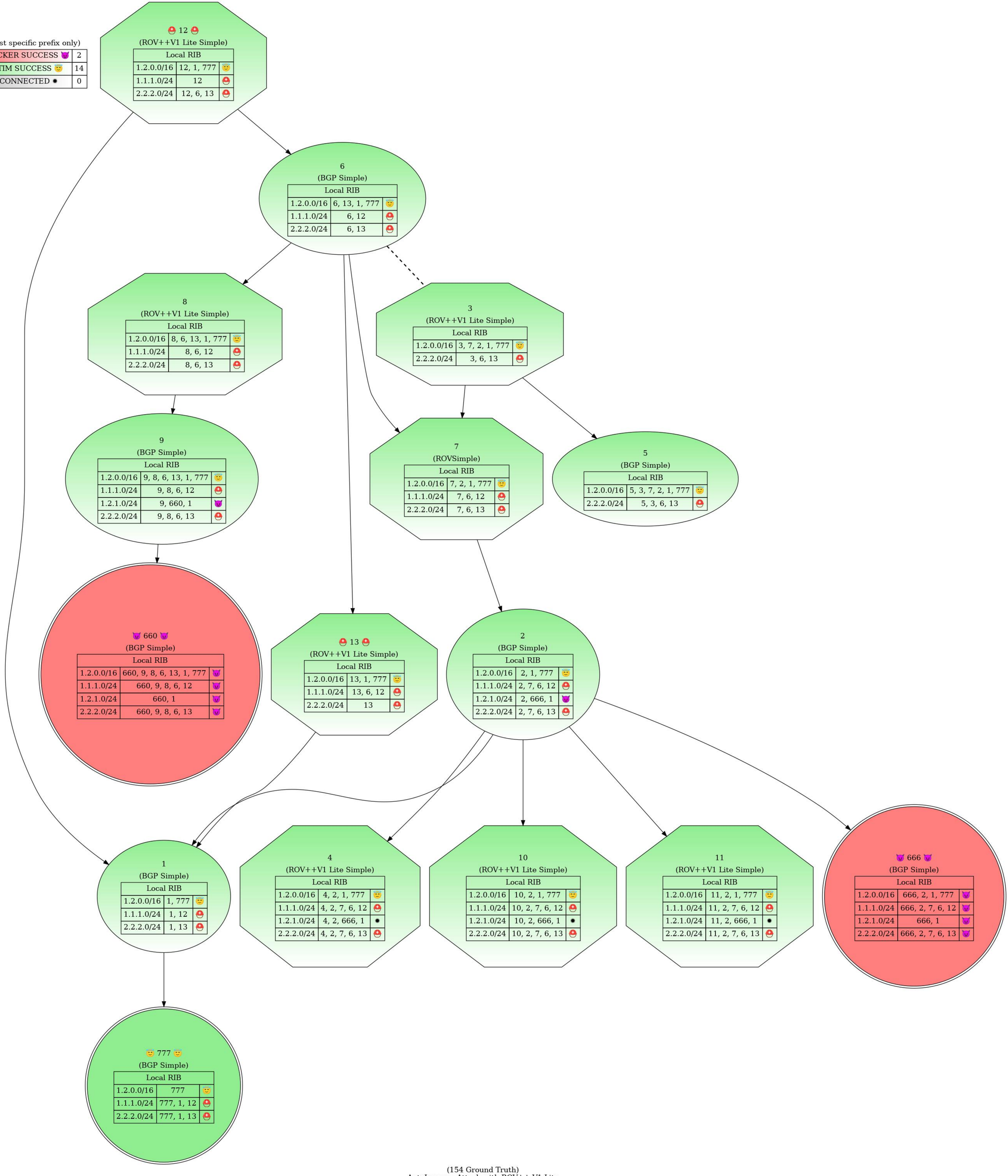

(153 Guess)
AutoImmune Attack with V4 Lite K=2
Traceback for 1.2.0.0/16



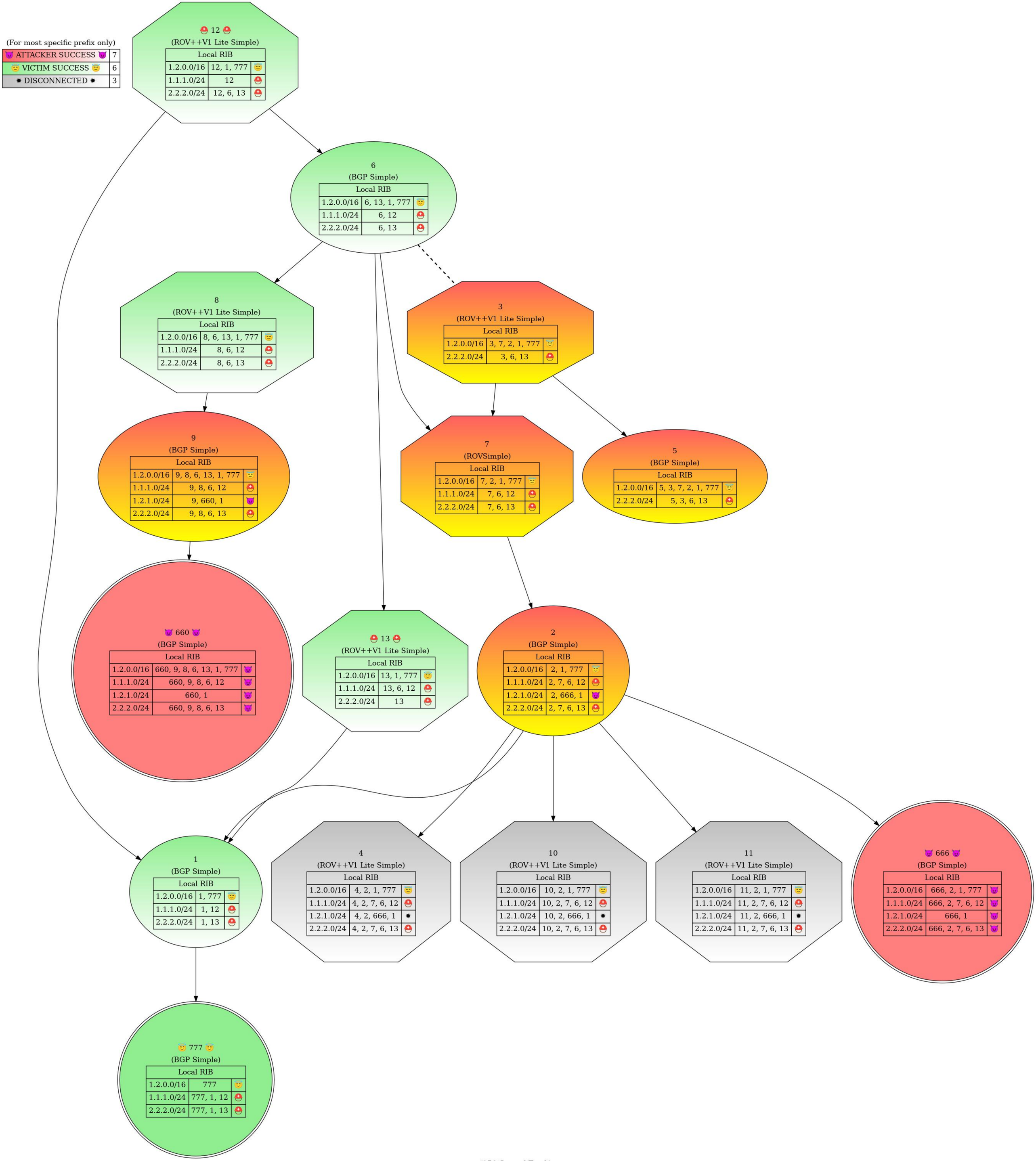

(153 Guess)
AutoImmune Attack with V4 Lite K=2
Traceback for 1.2.1.0/24

(For most specific prefix only)

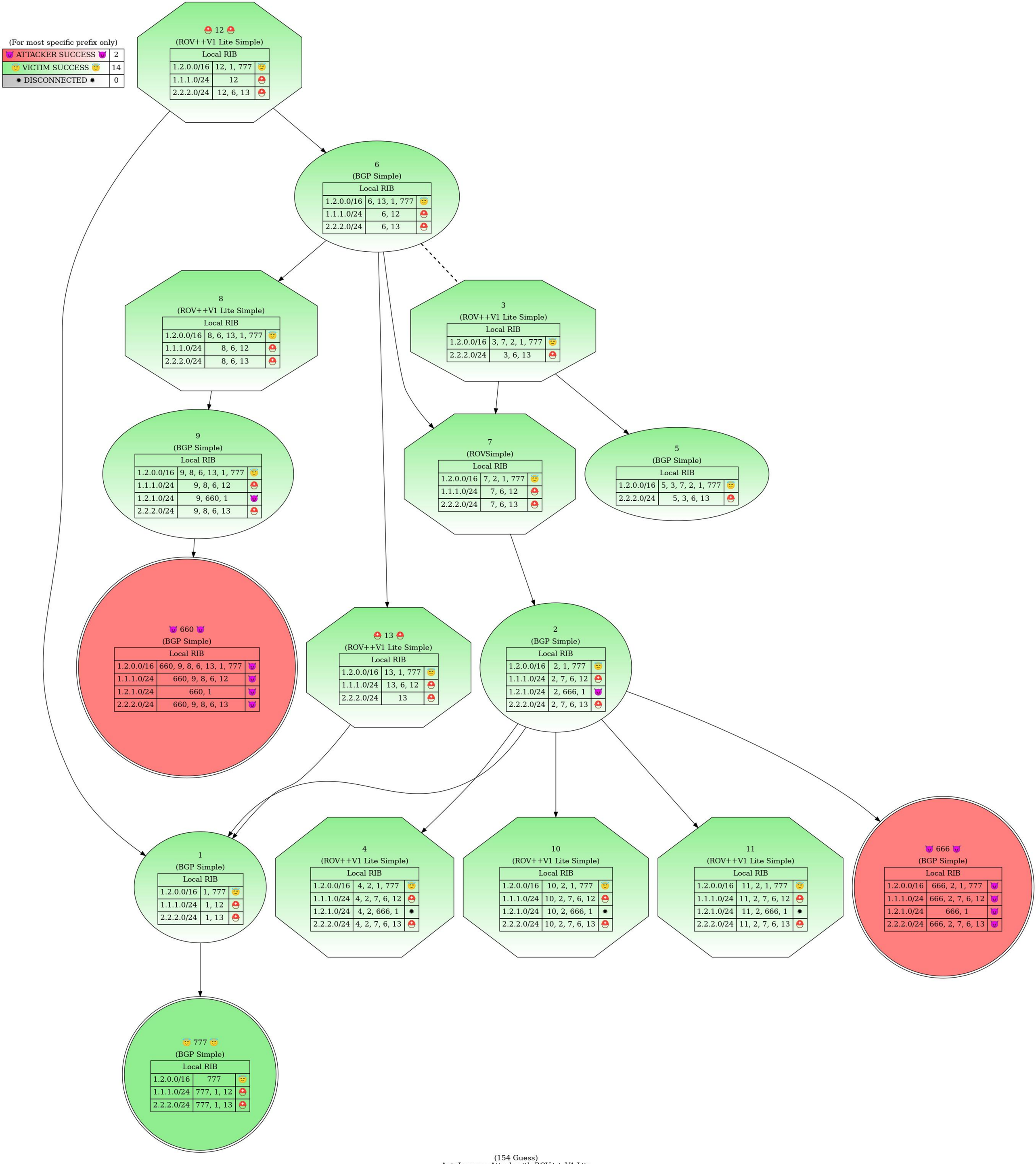
| | |
|---|---|
| 😈 ATTACKER SUCCESS 😈 | 2 |
| 😇 VICTIM SUCCESS 😇 | 14 |
| ✹ DISCONNECTED ✹ | 0 |



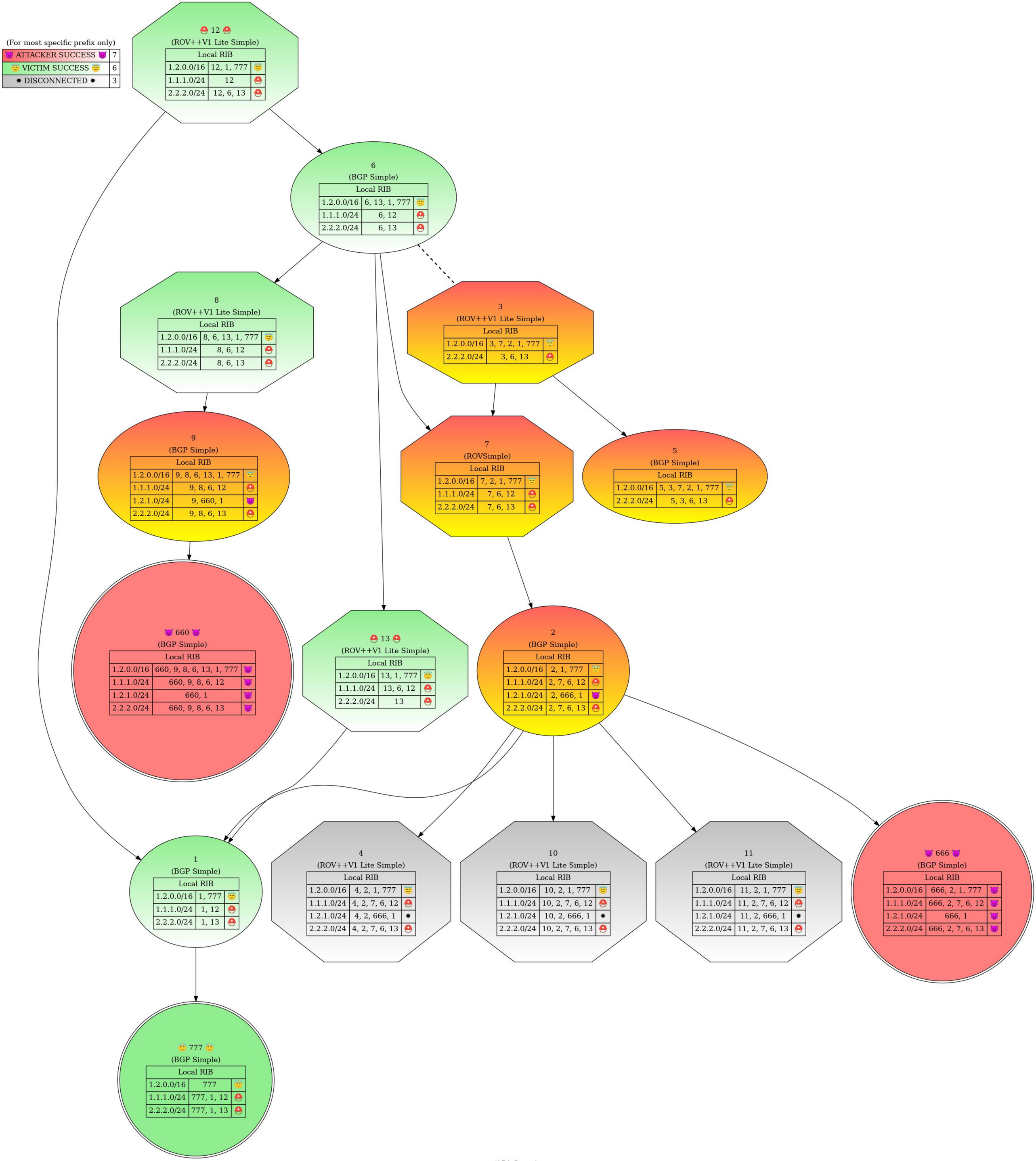

(154 Ground Truth)
AutoImmune Attack with ROV++ V1 Lite
Traceback for 1.2.0.0/16



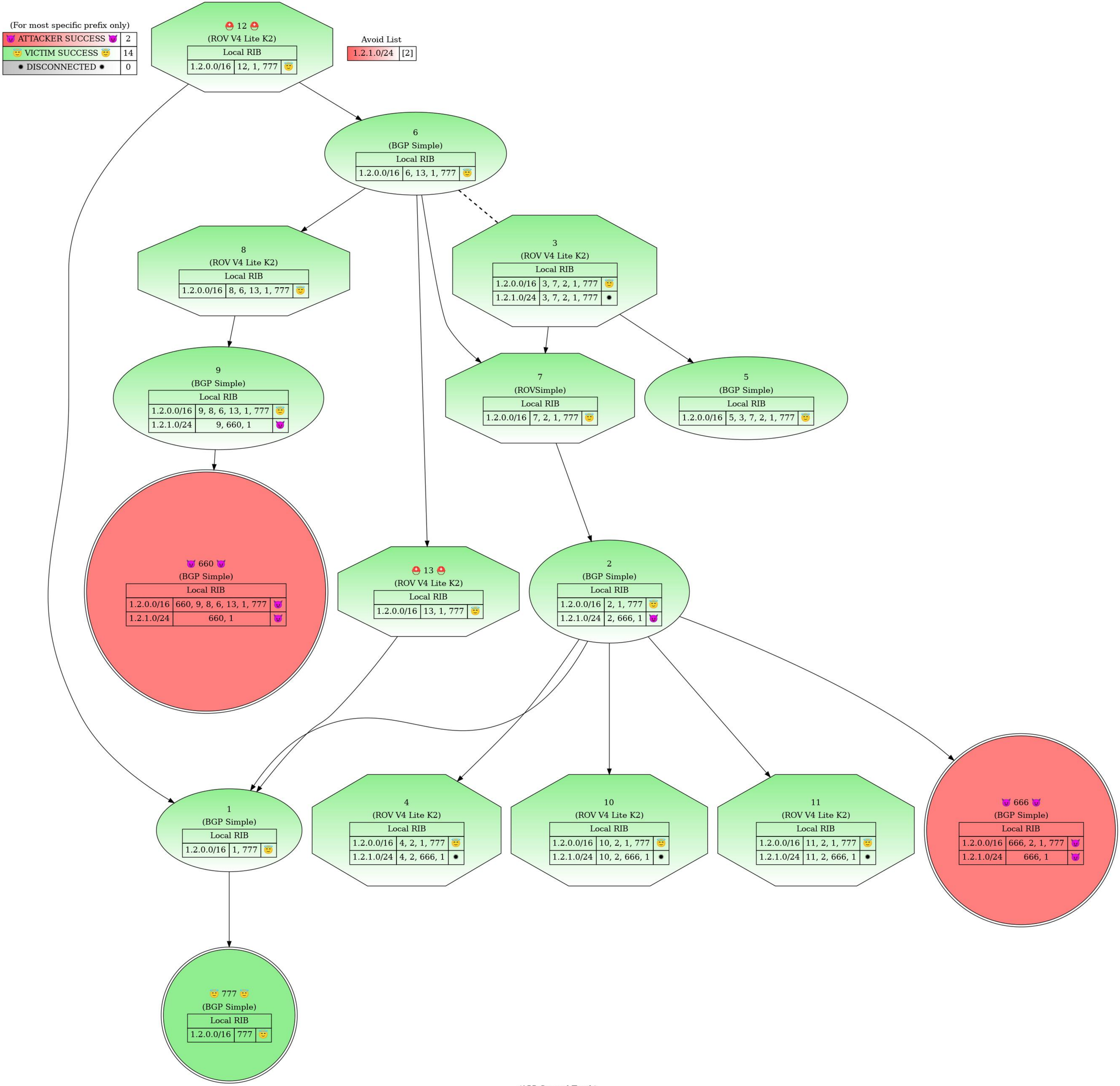

(154 Ground Truth)
AutoImmune Attack with ROV++ V1 Lite
Traceback for 1.2.1.0/24



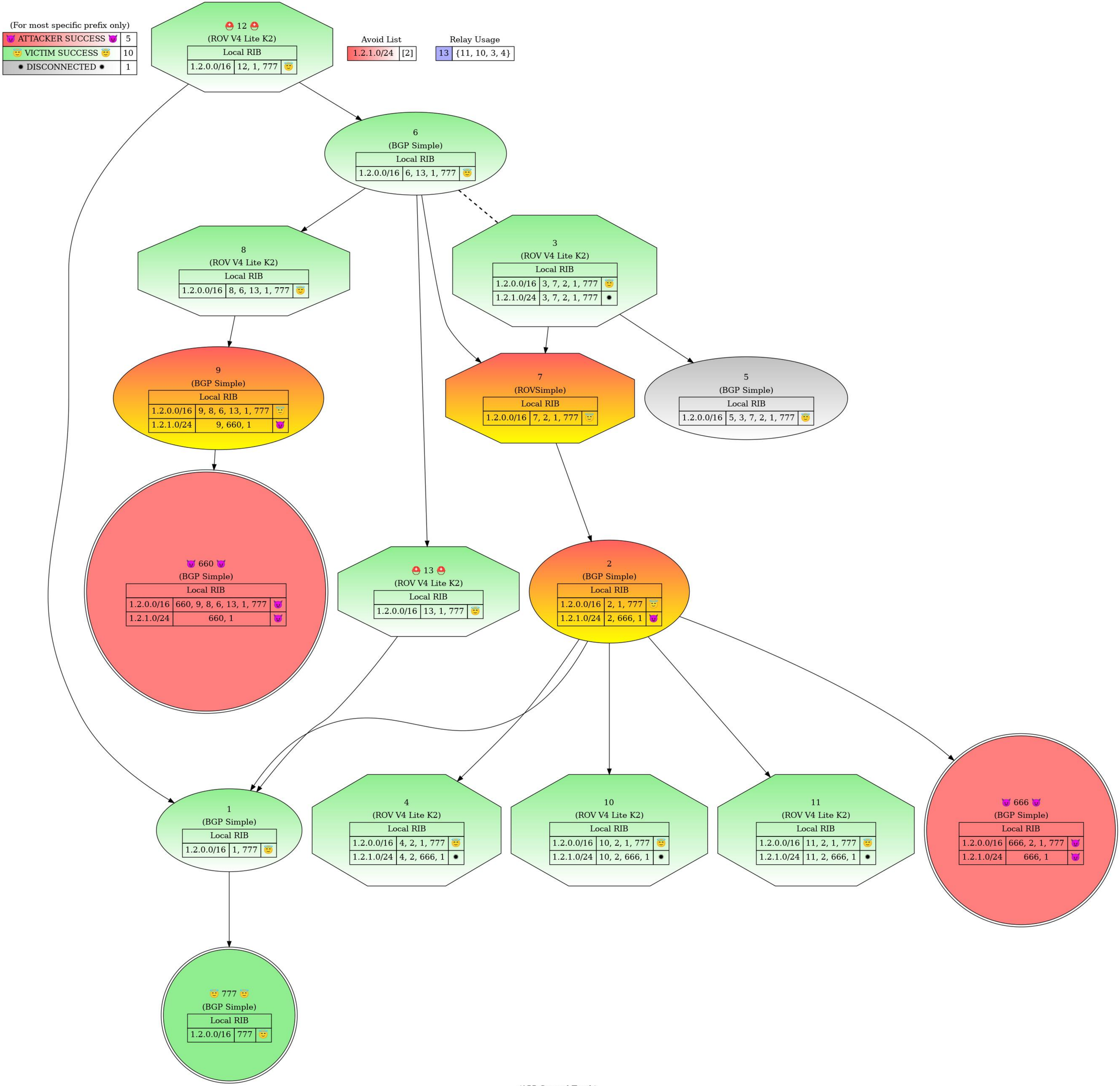

(154 Guess)
AutoImmune Attack with ROV++ V1 Lite
Traceback for 1.2.0.0/16



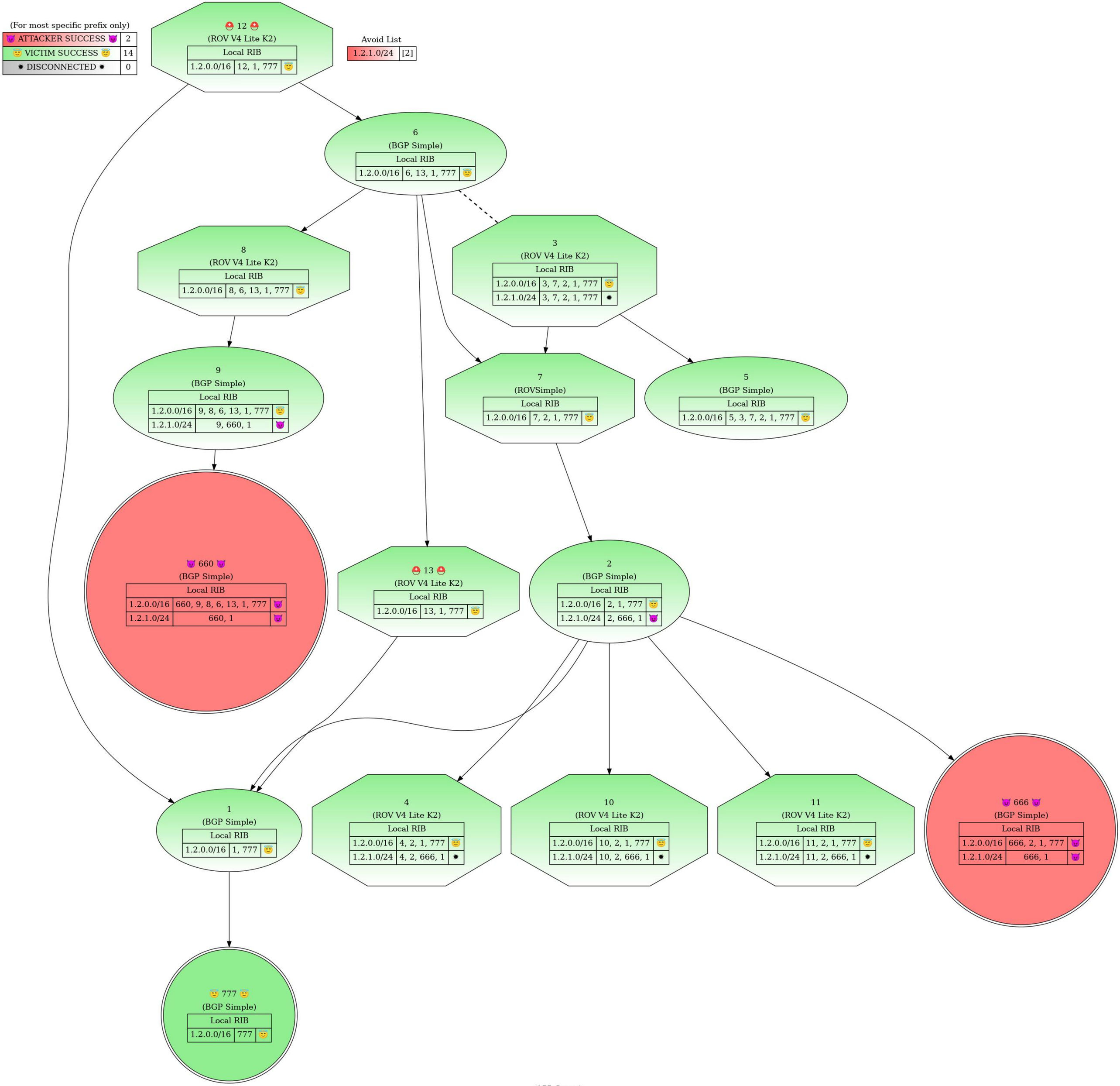

(154 Guess)
AutoImmune Attack with ROV++ V1 Lite
Traceback for 1.2.1.0/24



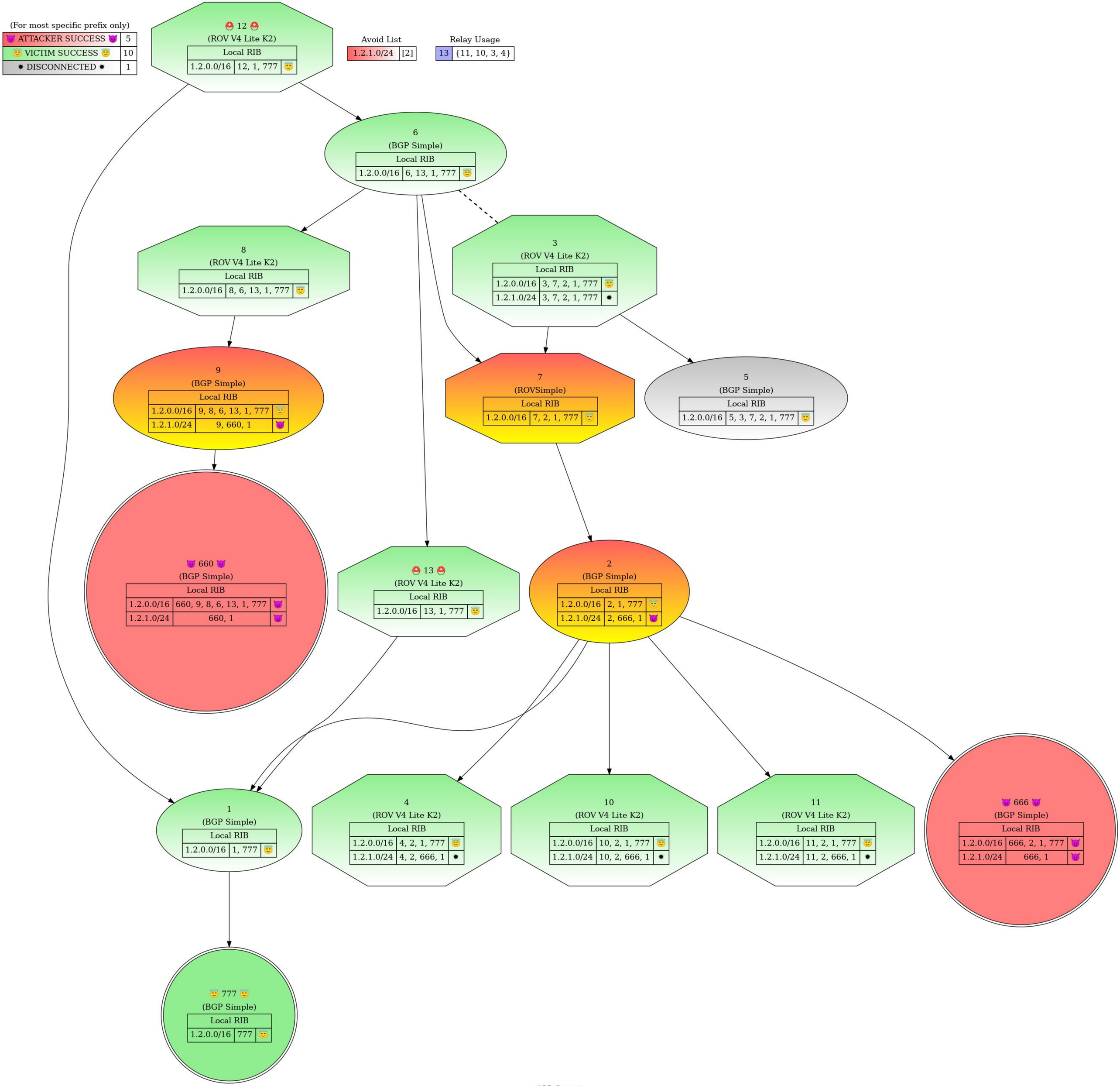

(155 Ground Truth)
AutoImmune Attack with ROV++ V4 k=2
Traceback for 1.2.0.0/16



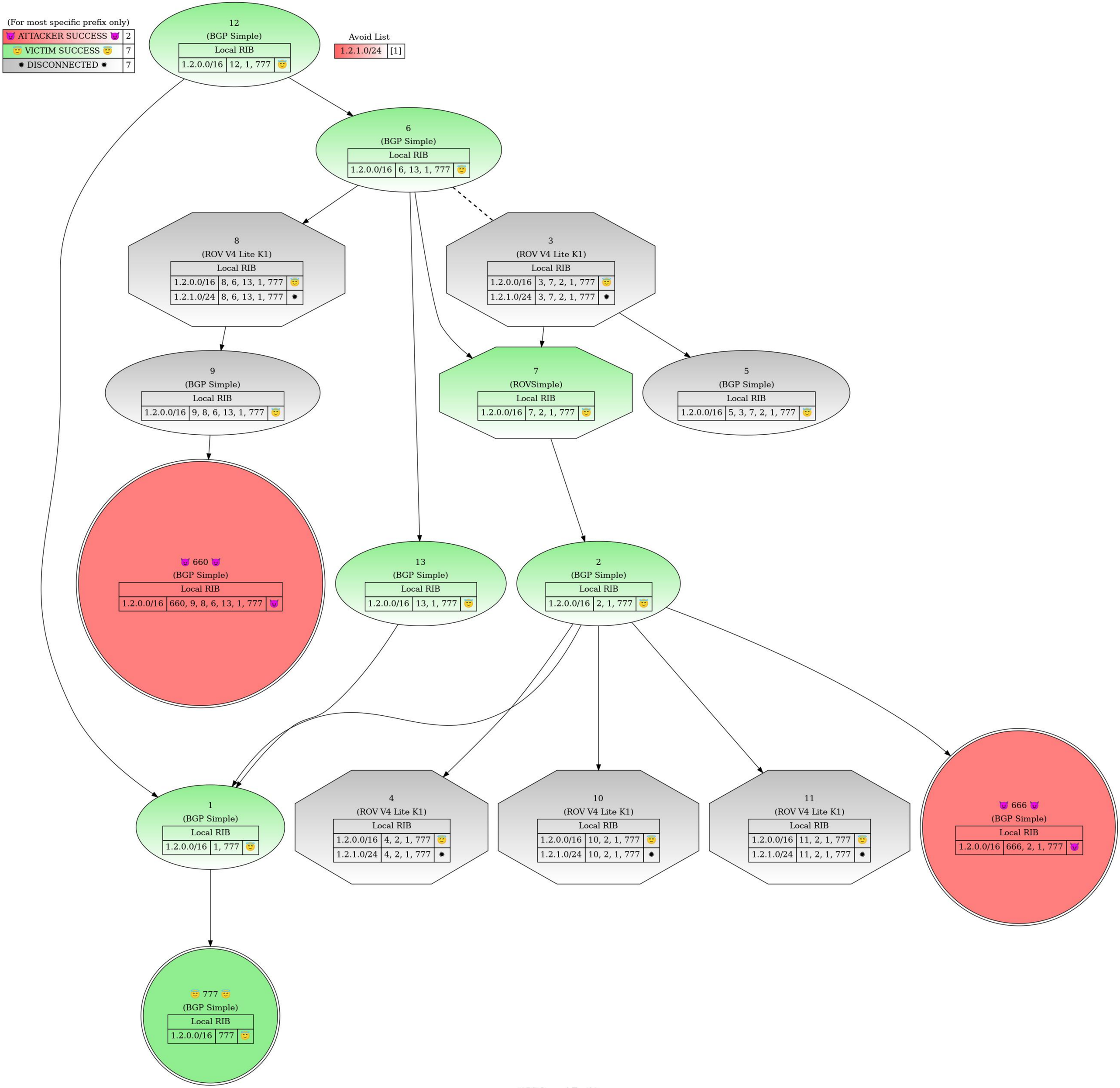

(155 Ground Truth)
AutoImmune Attack with ROV++ V4 k=2
Traceback for 1.2.1.0/24



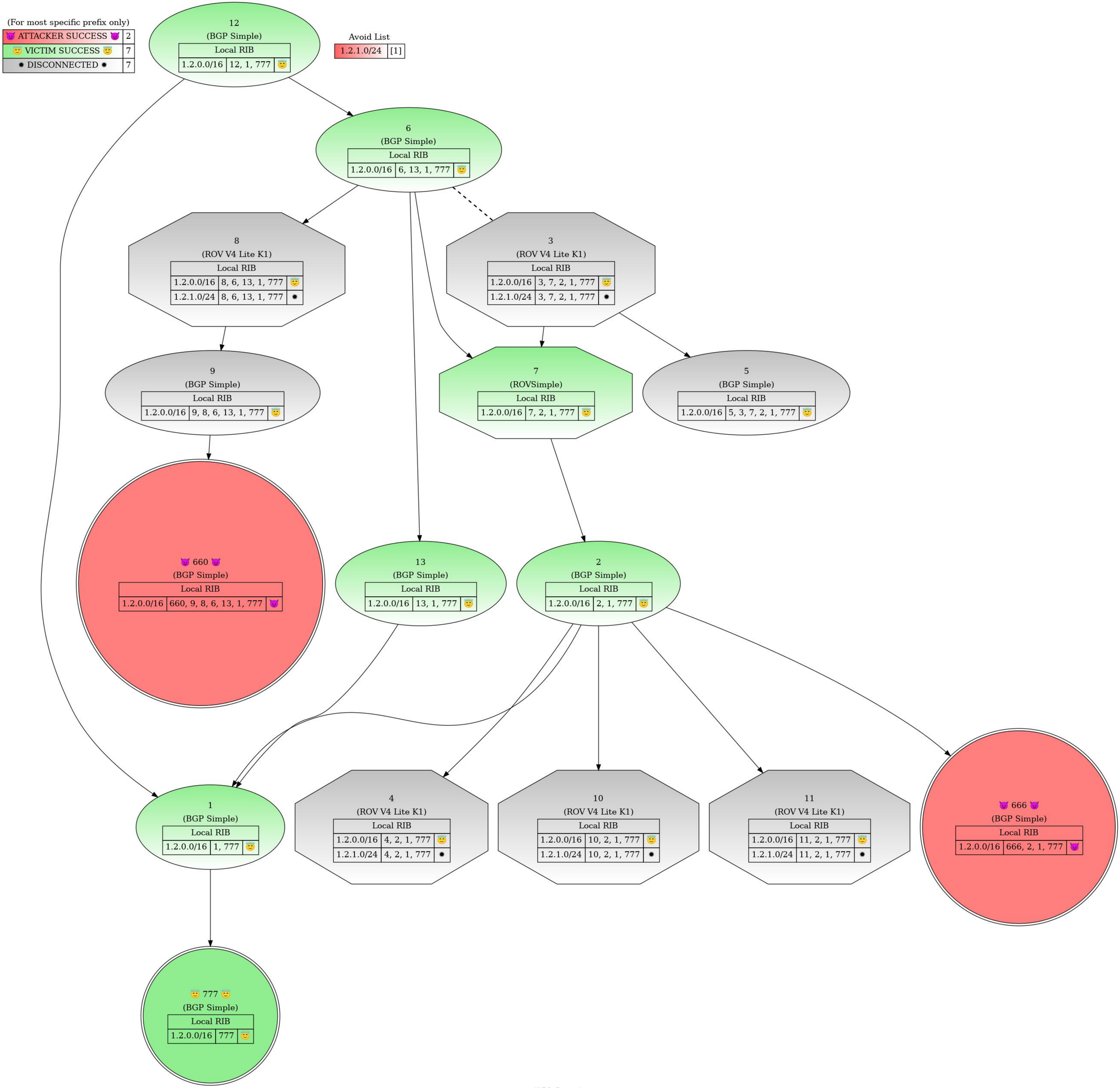

(155 Guess)
AutoImmune Attack with ROV++ V4 k=2
Traceback for 1.2.0.0/16



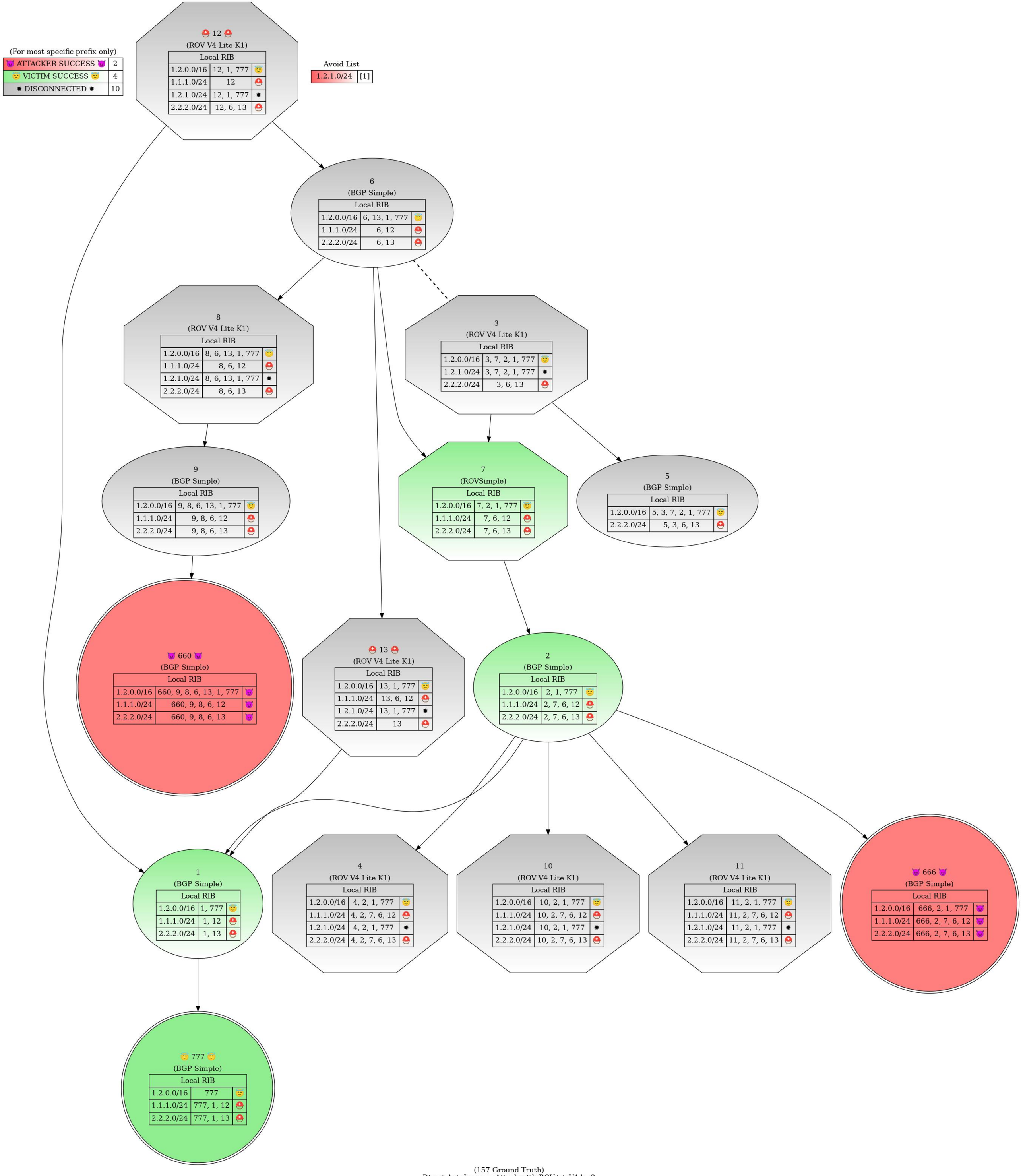

(155 Guess)
AutoImmune Attack with ROV++ V4 k=2
Traceback for 1.2.1.0/24



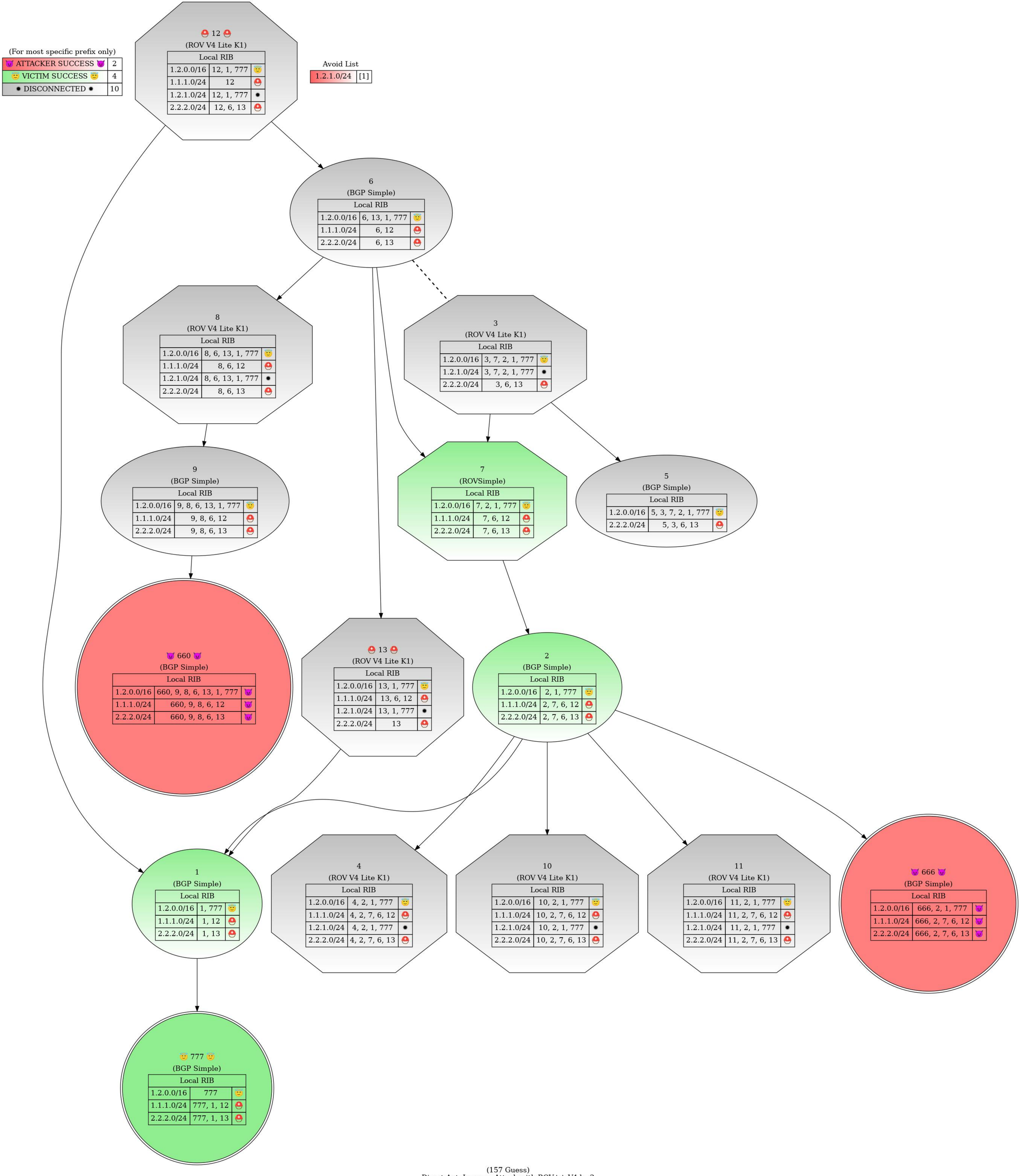

(156 Ground Truth)
Direct AutoImmune Attack with ROV++ V4 k=1
Traceback for 1.2.1.0/24



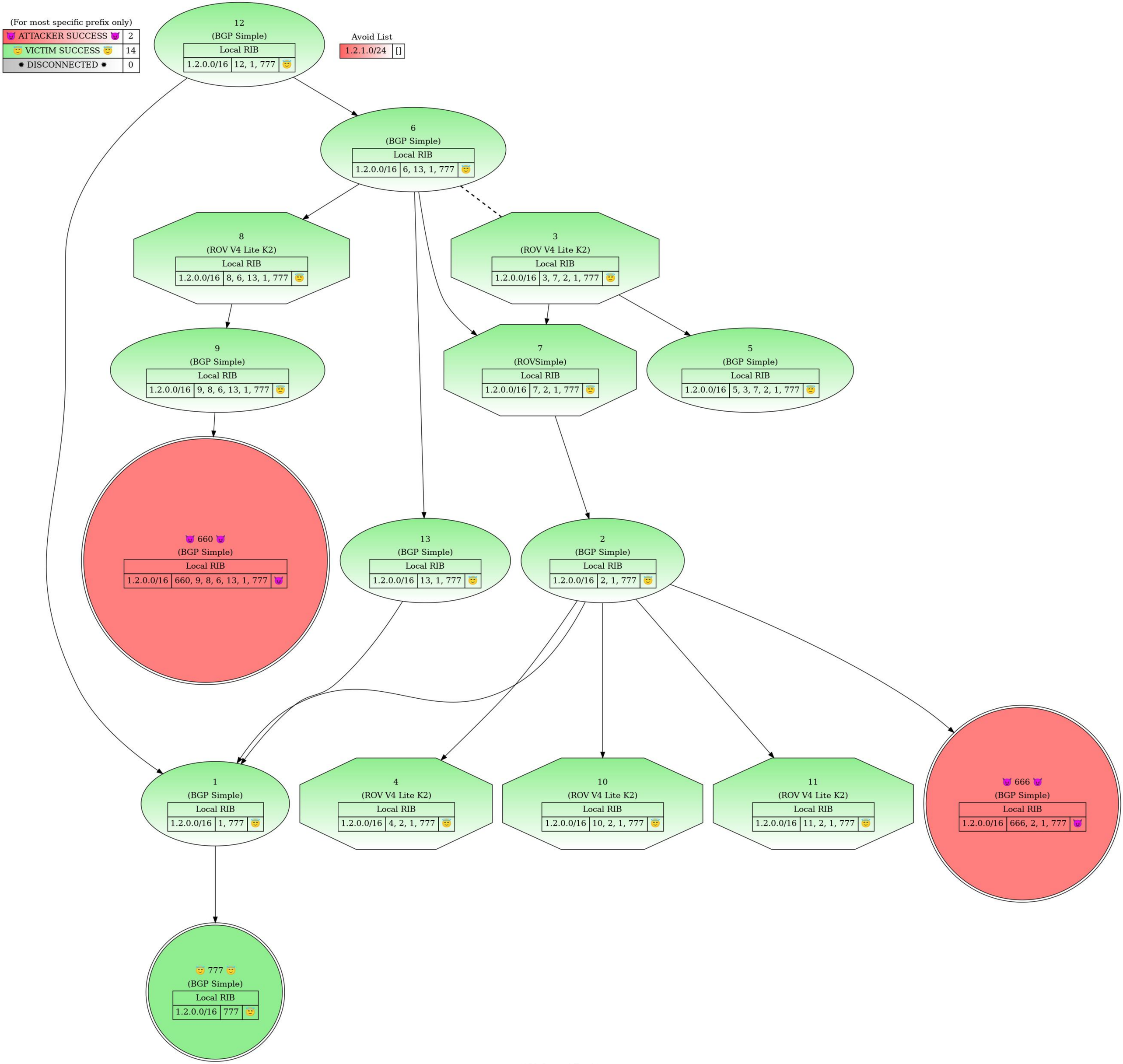

(156 Guess)
Direct AutoImmune Attack with ROV++ V4 k=1
Traceback for 1.2.1.0/24



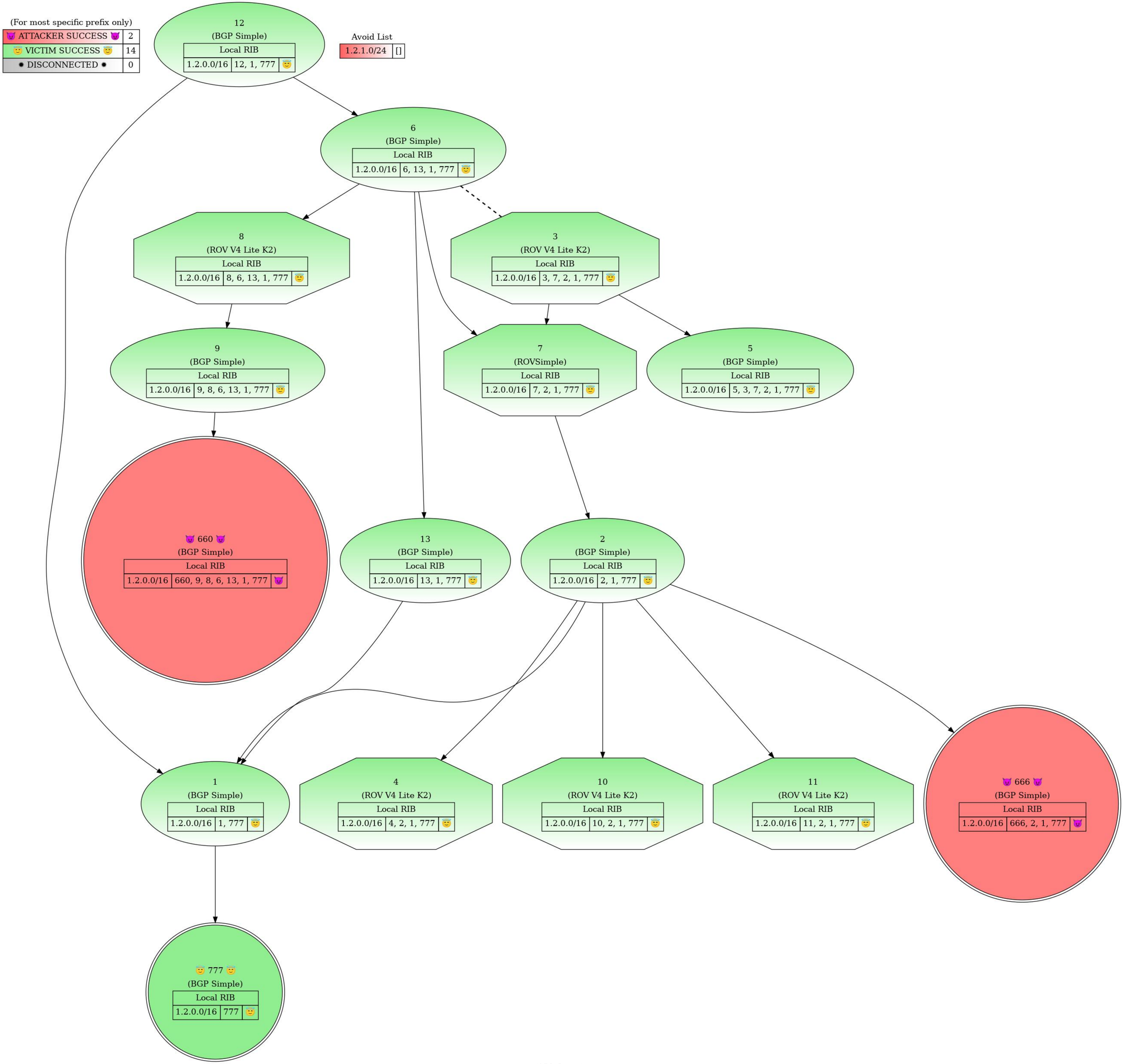

(157 Ground Truth)
Direct AutoImmune Attack with ROV++ V4 k=2
Traceback for 1.2.1.0/24



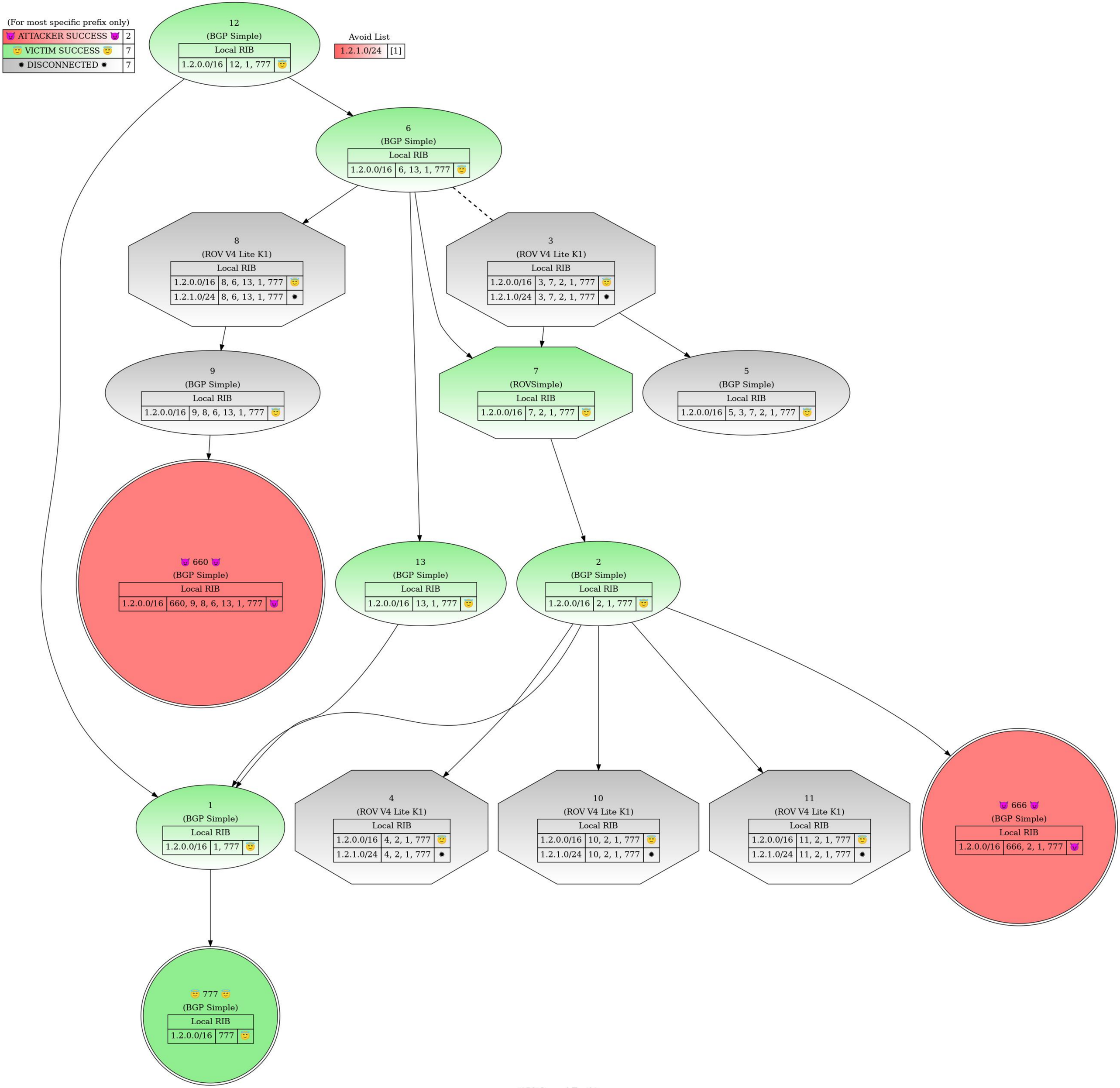

(157 Guess)
Direct AutoImmune Attack with ROV++ V4 k=2
Traceback for 1.2.1.0/24



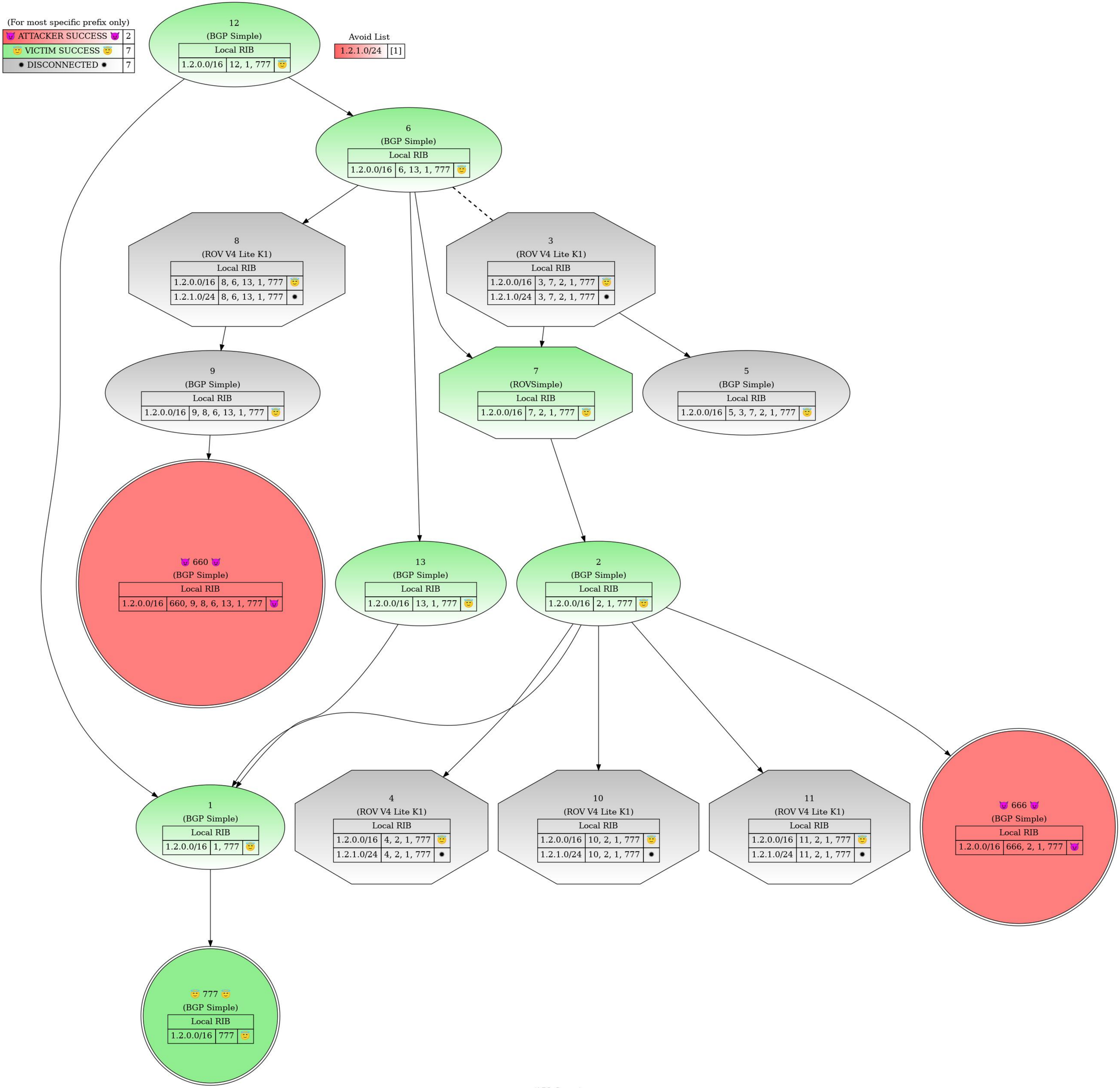

(158 Ground Truth)
Direct AutoImmune Attack with ROV++ V4 k=2
Traceback for 1.2.1.0/24



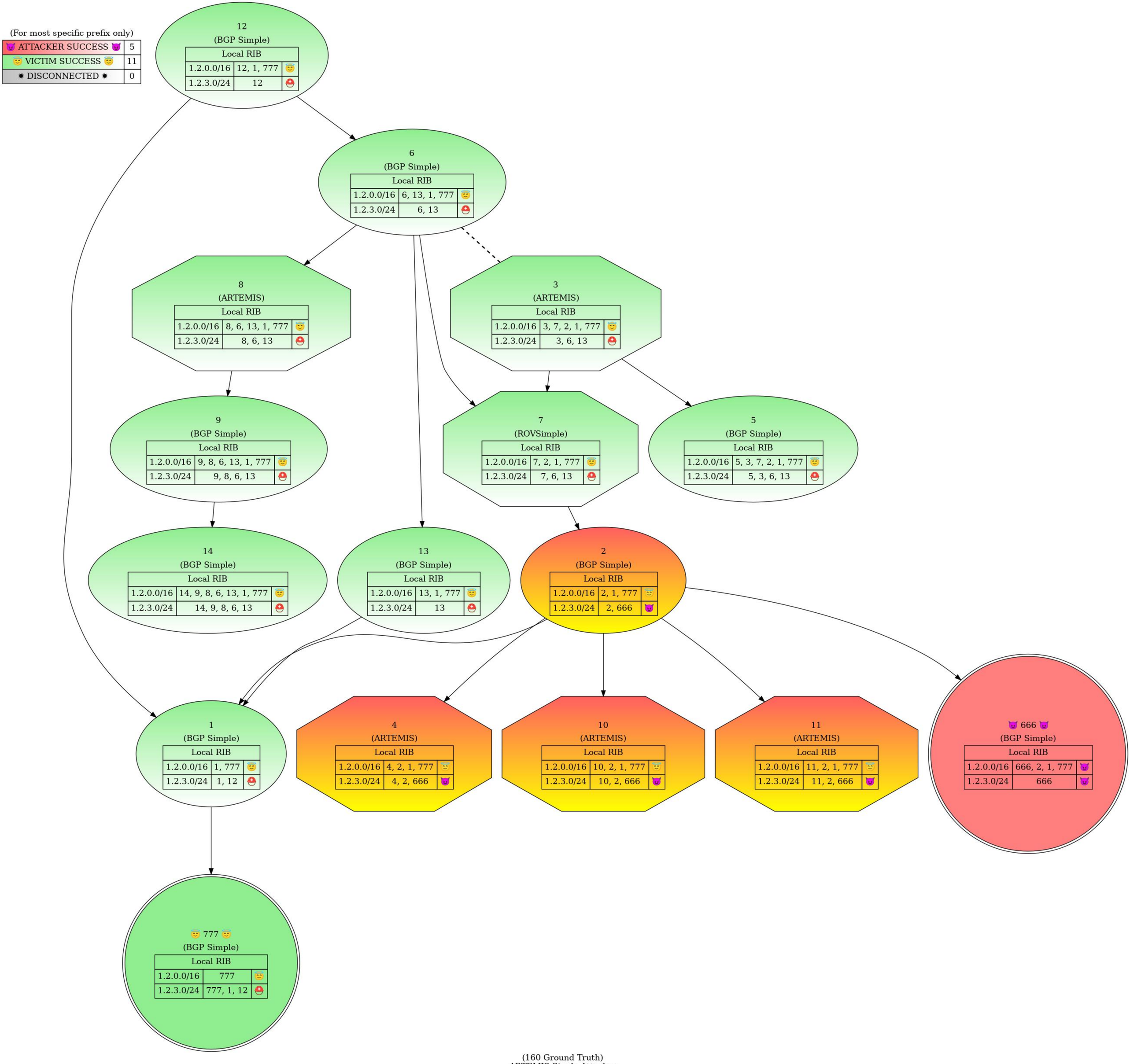

(158 Guess)
Direct AutoImmune Attack with ROV++ V4 k=2
Traceback for 1.2.1.0/24



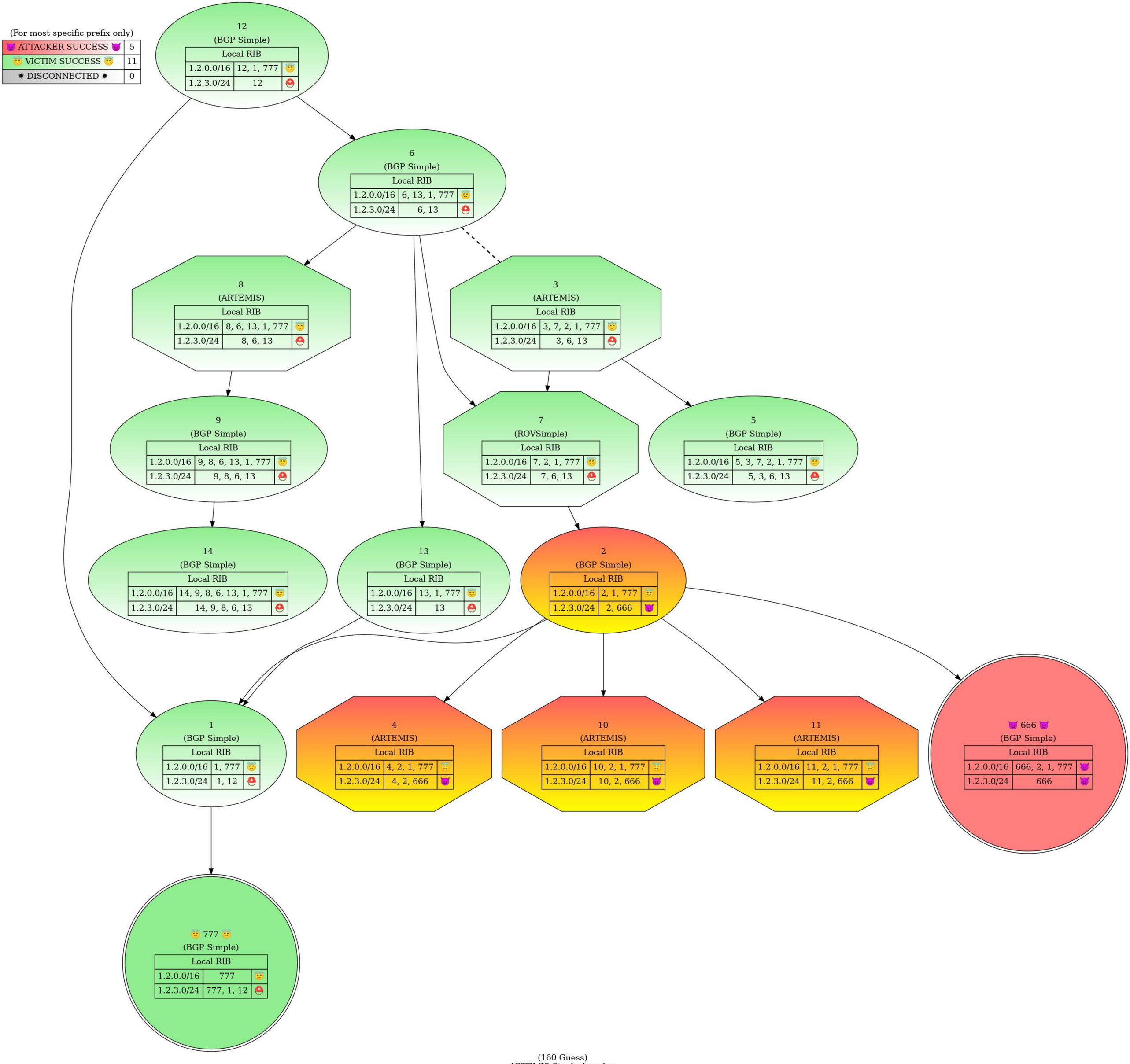

(159 Ground Truth)
Direct AutoImmune Attack with ROV++ V4 k=2
Traceback for 1.2.1.0/24



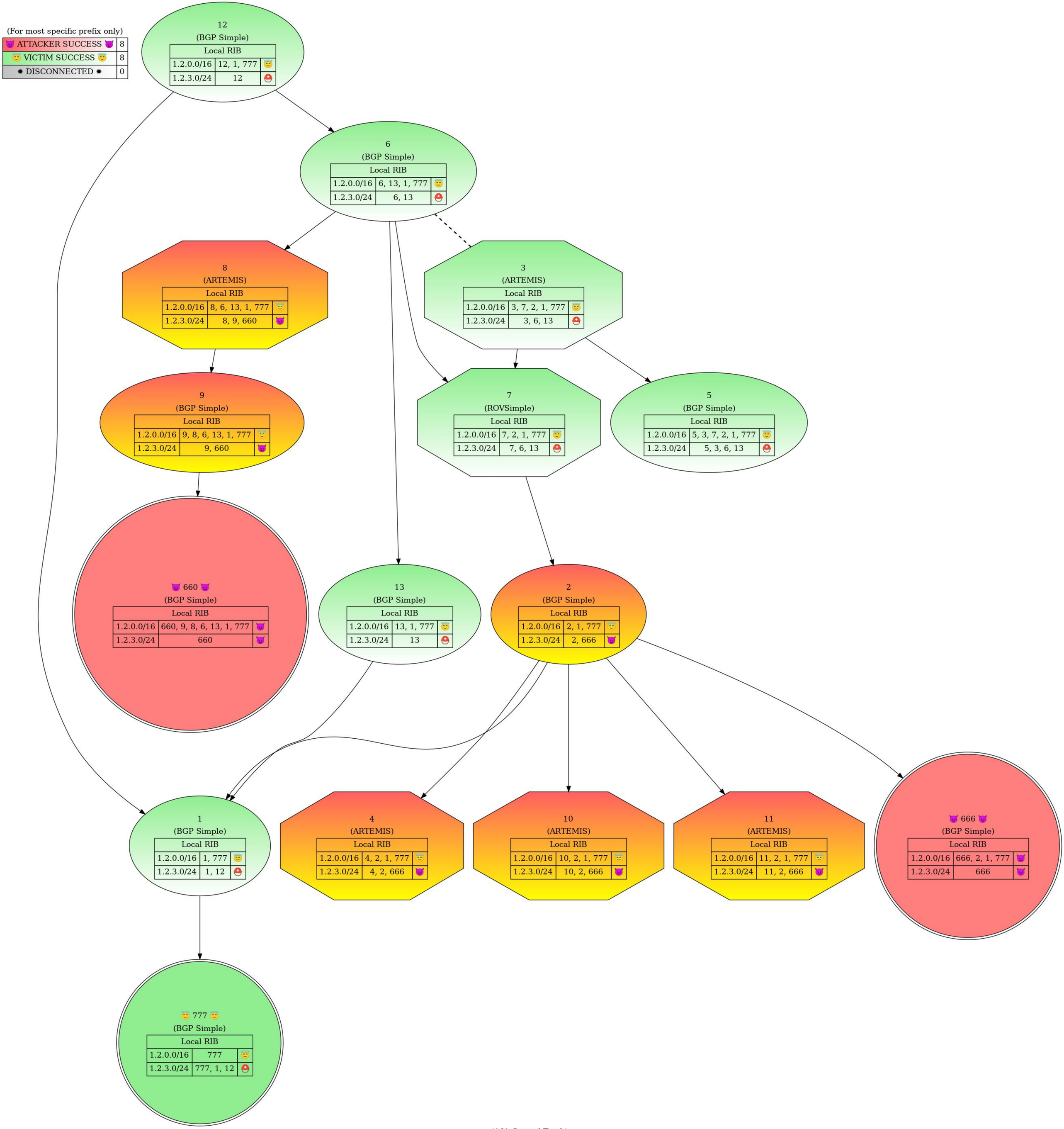

(159 Guess)
Direct AutoImmune Attack with ROV++ V4 k=2
Traceback for 1.2.1.0/24



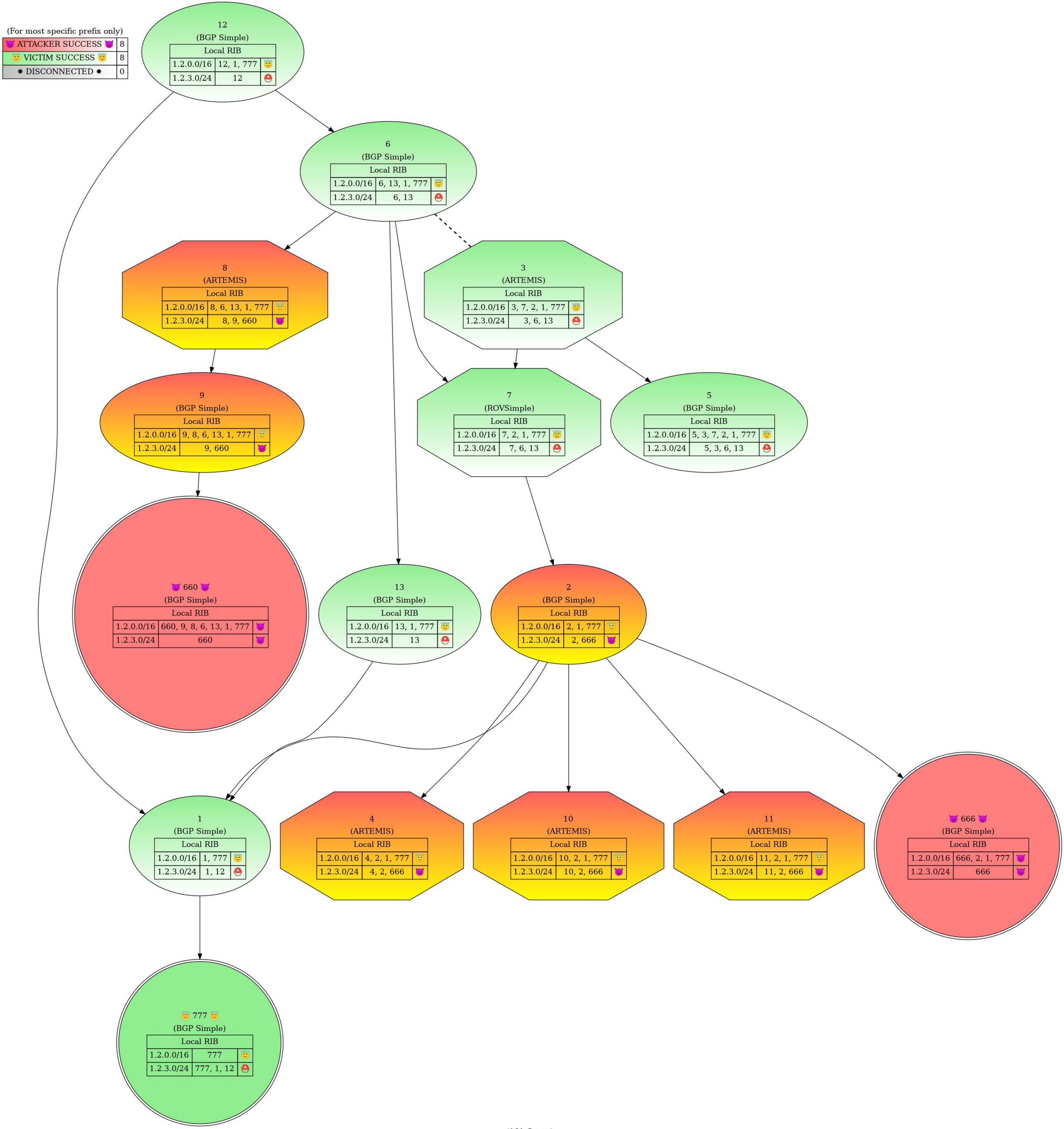

(160 Ground Truth)
ARTEMIS Single Attacker
Traceback for 1.2.3.0/24



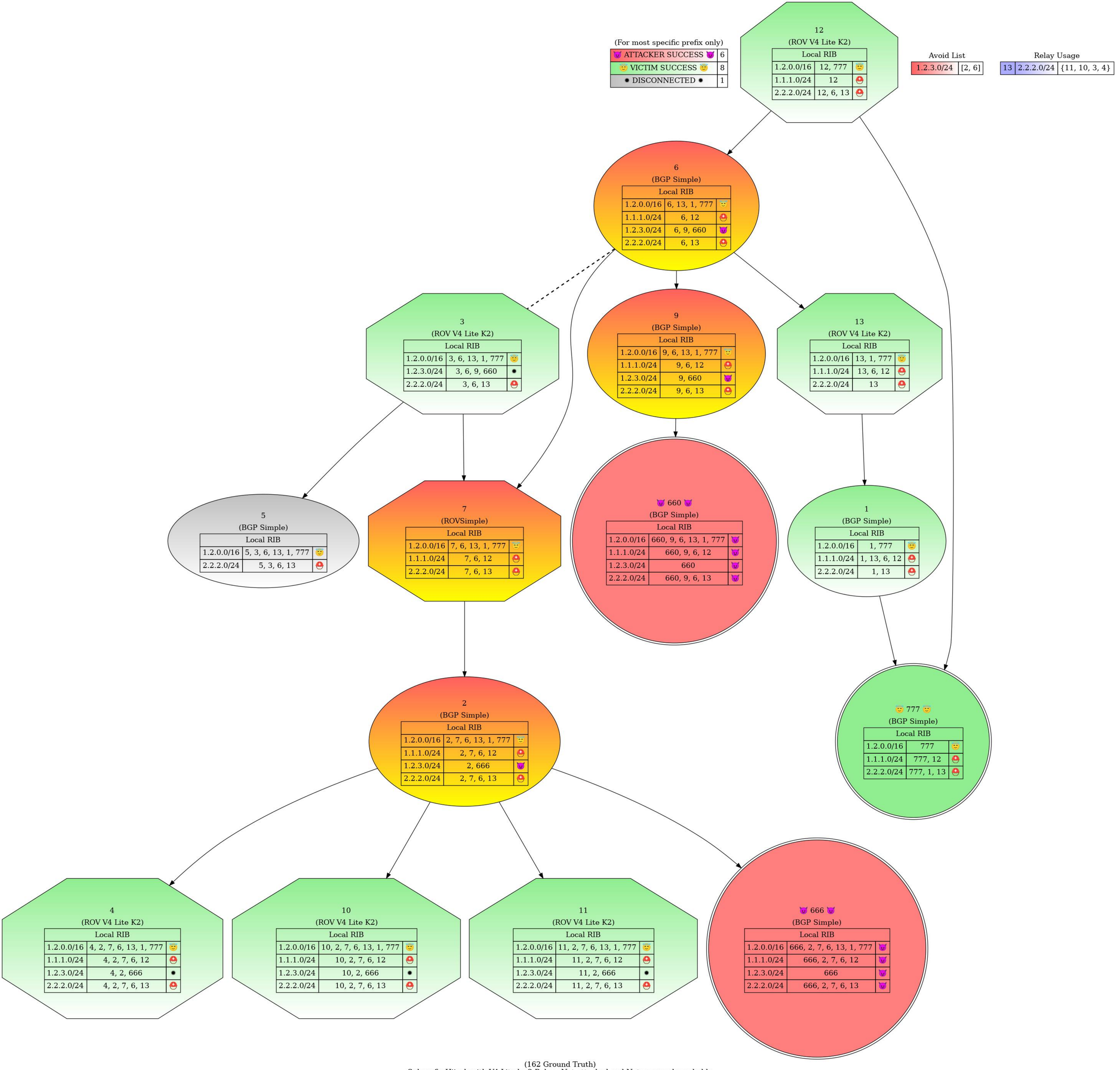

(160 Guess)
ARTEMIS Single Attacker
Traceback for 1.2.3.0/24



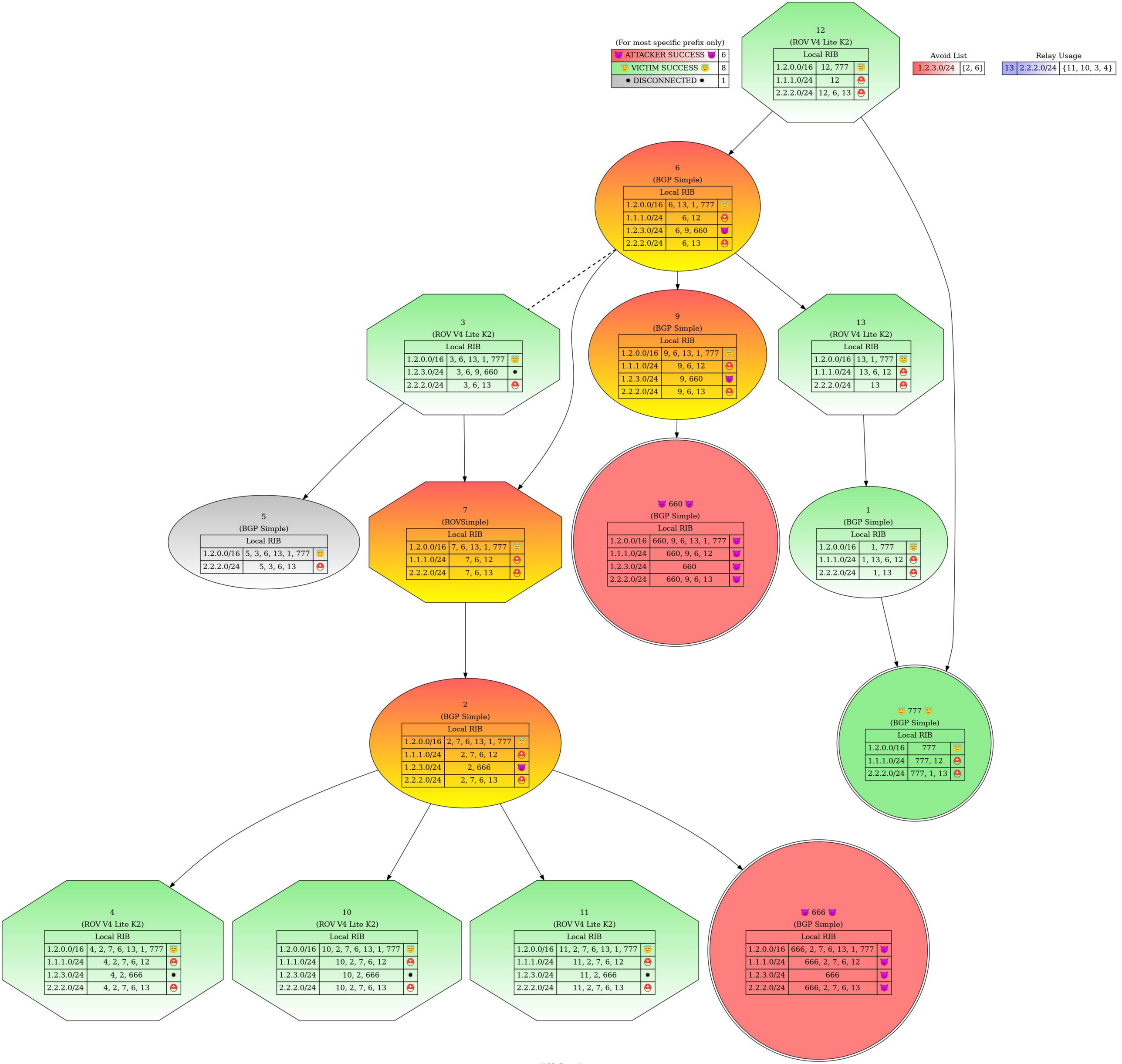

(161 Ground Truth)
ARTEMIS 2 Attackers
Traceback for 1.2.3.0/24



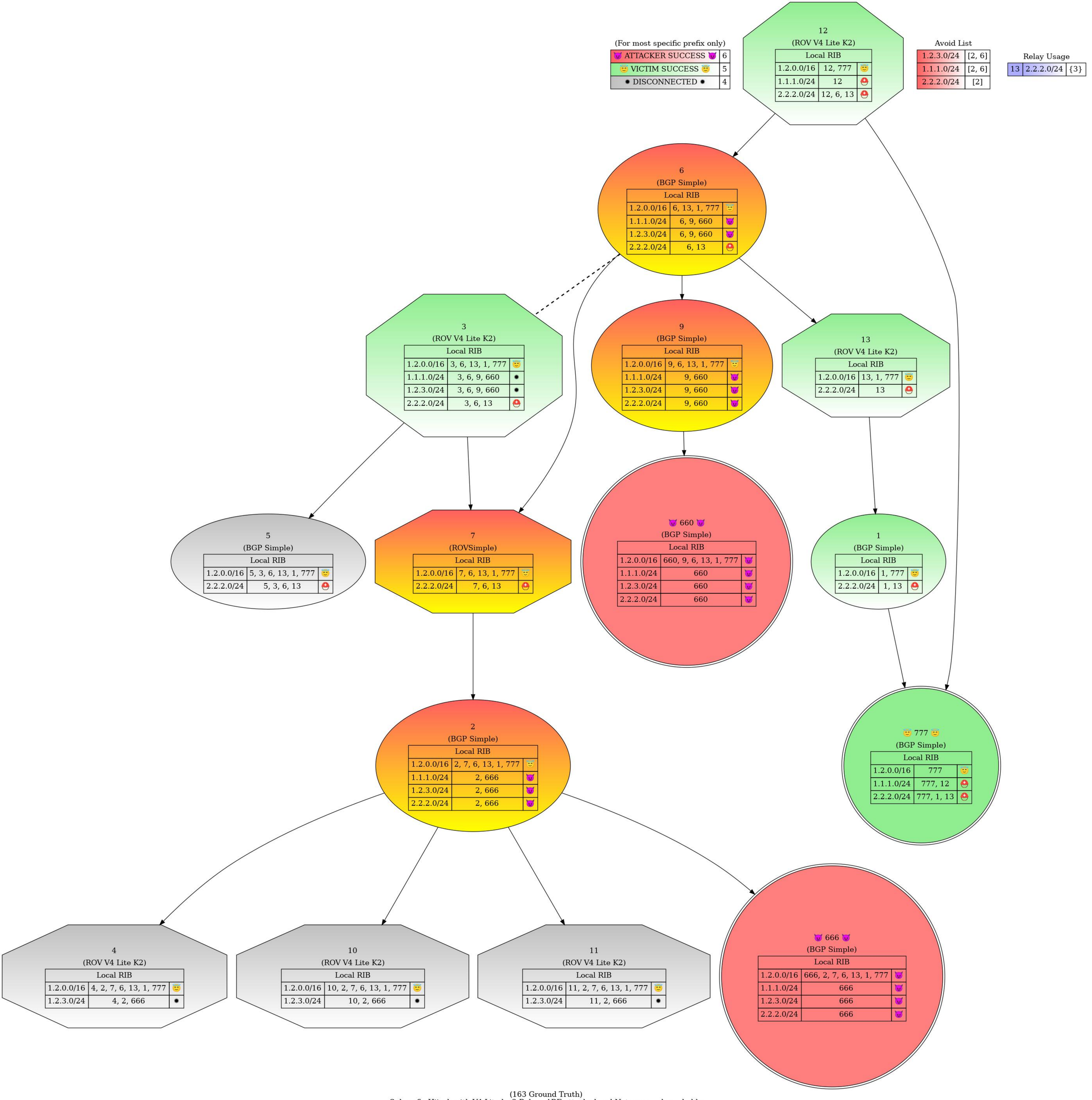

(161 Guess)
ARTEMIS 2 Attackers
Traceback for 1.2.3.0/24



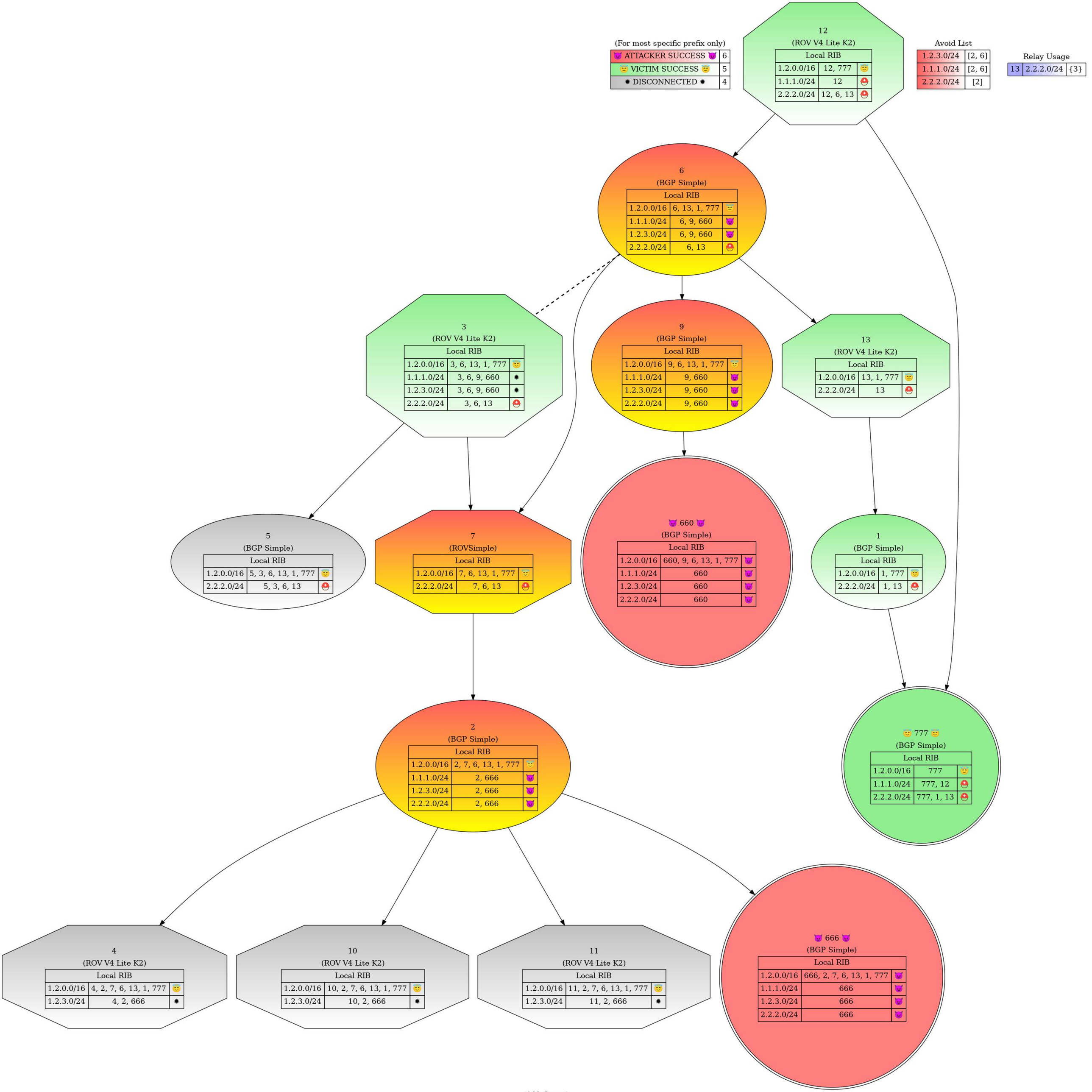

(162 Ground Truth)
Subprefix Hijack with V4 Lite k=2 Relays Not attacked and Not assumed reachable
Traceback for 1.2.3.0/24



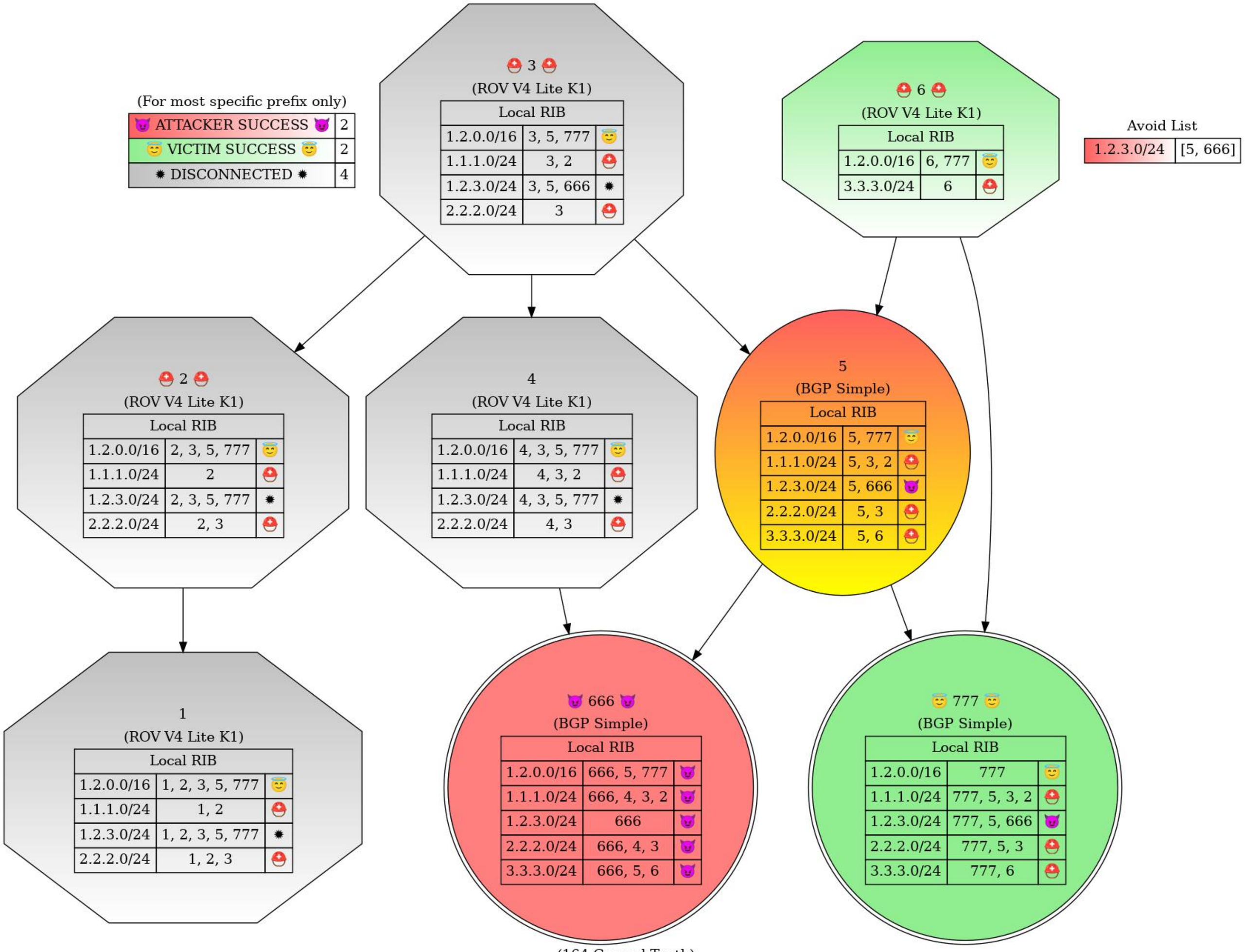

(162 Guess)
Subprefix Hijack with V4 Lite k=2 Relays Not attacked and Not assumed reachable
Traceback for 1.2.3.0/24



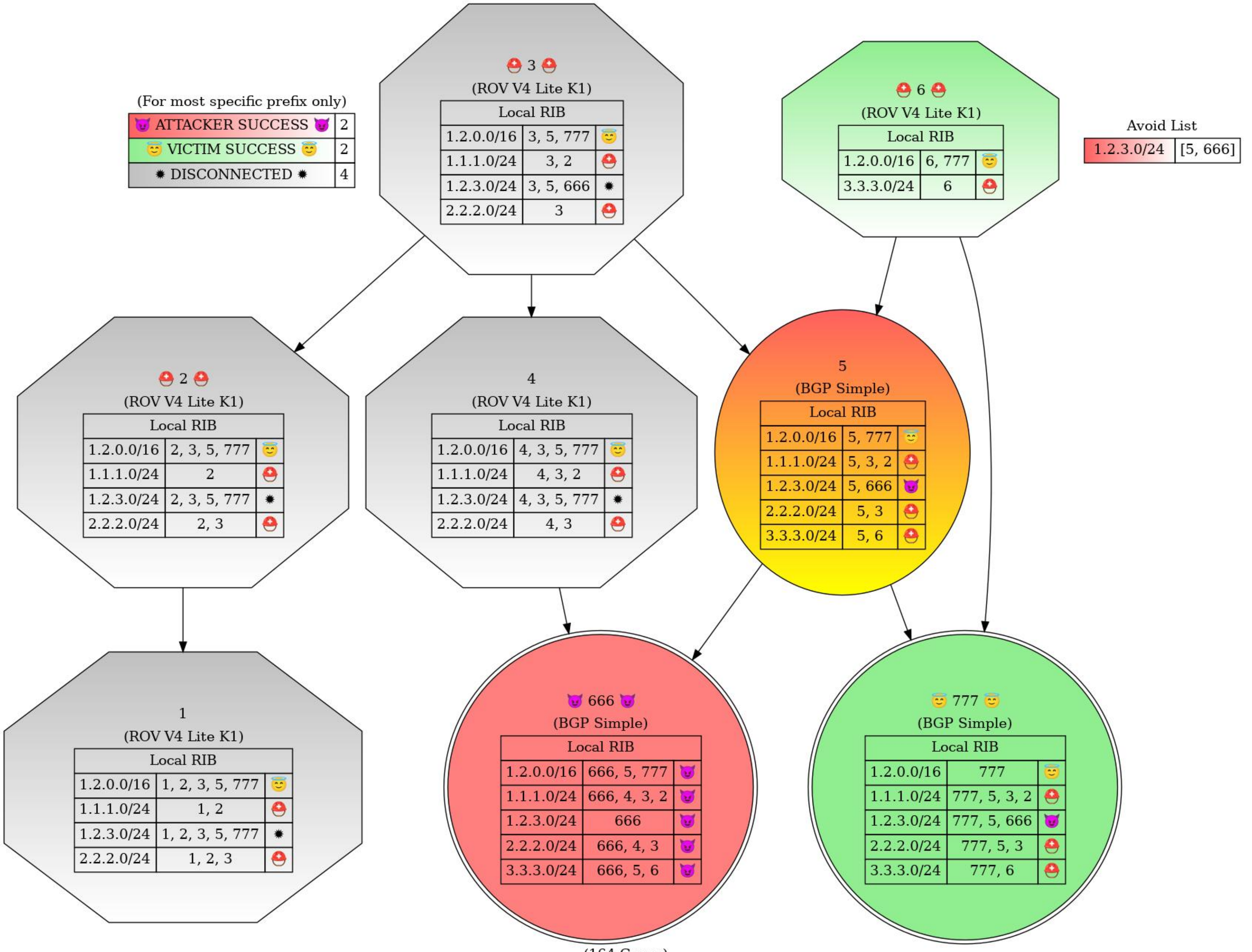

(163 Ground Truth)
Subprefix Hijack with V4 Lite k=2 Relays ARE attacked and Not assumed reachable
Traceback for 1.2.3.0/24




(163 Guess)
Subprefix Hijack with V4 Lite k=2 Relays ARE attacked and Not assumed reachable
Traceback for 1.2.3.0/24




(164 Ground Truth)
Subprefix Hijack with V4 Lite k=1Relays NOT attacked and Not assumed reachable
No CDN used (i.e. Peer like setting)
Traceback for 1.2.3.0/24




(164 Guess)
Subprefix Hijack with V4 Lite k=1Relays NOT attacked and Not assumed reachable
No CDN used (i.e. Peer like setting)
Traceback for 1.2.3.0/24

(For most specific prefix only)

| | |
|---|---|
| 😈 ATTACKER SUCCESS 😈 | 2 |
| 😇 VICTIM SUCCESS 😇 | 6 |
| ✹ DISCONNECTED ✹ | 0 |

⛑ 12008 ⛑
(ROV V4 Lite K1)

| Local RIB | | |
|---|---|---|
| 1.2.0.0/16 | 12008, 5, 777 | 😇 |
| 1.1.1.0/24 | 12008 | ⛑ |
| 1.2.3.0/24 | 12008, 5, 666 | ✹ |
| 3.3.3.0/24 | 12008, 7786 | ⛑ |

⛑ 19905 ⛑
(ROV V4 Lite K1)

| Local RIB | | |
|---|---|---|
| 1.2.0.0/16 | 19905, 777 | 😇 |
| 2.2.2.0/24 | 19905 | ⛑ |

Avoid List

| | |
|---|---|
| 1.2.3.0/24 | [5, 666] |

Relay Usage

| | | |
|---|---|---|
| 19905 | 2.2.2.0/24 | {12008, 1, 7786} |
| 12008 | 1.1.1.0/24 | {4} |

⛑ 7786 ⛑
(ROV V4 Lite K1)

| Local RIB | | |
|---|---|---|
| 1.2.0.0/16 | 7786, 12008, 5, 777 | 😇 |
| 1.1.1.0/24 | 7786, 12008 | ⛑ |
| 1.2.3.0/24 | 7786, 12008, 5, 777 | ✹ |
| 3.3.3.0/24 | 7786 | ⛑ |

4
(ROV V4 Lite K1)

| Local RIB | | |
|---|---|---|
| 1.2.0.0/16 | 4, 12008, 5, 777 | 😇 |
| 1.1.1.0/24 | 4, 12008 | ⛑ |
| 1.2.3.0/24 | 4, 12008, 5, 777 | ✹ |
| 3.3.3.0/24 | 4, 12008, 7786 | ⛑ |

5
(BGP Simple)

| Local RIB | | |
|---|---|---|
| 1.2.0.0/16 | 5, 777 | 😇 |
| 1.1.1.0/24 | 5, 12008 | ⛑ |
| 1.2.3.0/24 | 5, 666 | 😈 |
| 2.2.2.0/24 | 5, 19905 | ⛑ |
| 3.3.3.0/24 | 5, 12008, 7786 | ⛑ |

1
(ROV V4 Lite K1)

| Local RIB | | |
|---|---|---|
| 1.2.0.0/16 | 1, 7786, 12008, 5, 777 | 😇 |
| 1.1.1.0/24 | 1, 7786, 12008 | ⛑ |
| 1.2.3.0/24 | 1, 7786, 12008, 5, 777 | ✹ |
| 3.3.3.0/24 | 1, 7786 | ⛑ |

😈 666 😈
(BGP Simple)

| Local RIB | | |
|---|---|---|
| 1.2.0.0/16 | 666, 5, 777 | 😈 |
| 1.1.1.0/24 | 666, 4, 12008 | 😈 |
| 1.2.3.0/24 | 666 | 😈 |
| 2.2.2.0/24 | 666, 5, 19905 | 😈 |
| 3.3.3.0/24 | 666, 4, 12008, 7786 | 😈 |

😇 777 😇
(BGP Simple)

| Local RIB | | |
|---|---|---|
| 1.2.0.0/16 | 777 | 😇 |
| 1.1.1.0/24 | 777, 5, 12008 | ⛑ |
| 1.2.3.0/24 | 777, 5, 666 | 😈 |
| 2.2.2.0/24 | 777, 19905 | ⛑ |
| 3.3.3.0/24 | 777, 5, 12008, 7786 | ⛑ |

(165 Ground Truth)
Subprefix Hijack with V4 Lite k=1Relays NOT attacked and Not assumed reachable
CDN Neustar being used
Traceback for 1.2.3.0/24

(For most specific prefix only)

| | |
|---|---|
| 😈 ATTACKER SUCCESS 😈 | 2 |
| 😇 VICTIM SUCCESS 😇 | 6 |
| ✹ DISCONNECTED ✹ | 0 |

⛑ 12008 ⛑
(ROV V4 Lite K1)

| Local RIB | | |
|---|---|---|
| 1.2.0.0/16 | 12008, 5, 777 | 😇 |
| 1.1.1.0/24 | 12008 | ⛑ |
| 1.2.3.0/24 | 12008, 5, 666 | ✹ |
| 3.3.3.0/24 | 12008, 7786 | ⛑ |

⛑ 19905 ⛑
(ROV V4 Lite K1)

| Local RIB | | |
|---|---|---|
| 1.2.0.0/16 | 19905, 777 | 😇 |
| 2.2.2.0/24 | 19905 | ⛑ |

Avoid List

| | |
|---|---|
| 1.2.3.0/24 | [5, 666] |

Relay Usage

| | | |
|---|---|---|
| 19905 | 2.2.2.0/24 | {12008, 1, 7786} |
| 12008 | 1.1.1.0/24 | {4} |

⛑ 7786 ⛑
(ROV V4 Lite K1)

| Local RIB | | |
|---|---|---|
| 1.2.0.0/16 | 7786, 12008, 5, 777 | 😇 |
| 1.1.1.0/24 | 7786, 12008 | ⛑ |
| 1.2.3.0/24 | 7786, 12008, 5, 777 | ✹ |
| 3.3.3.0/24 | 7786 | ⛑ |

4
(ROV V4 Lite K1)

| Local RIB | | |
|---|---|---|
| 1.2.0.0/16 | 4, 12008, 5, 777 | 😇 |
| 1.1.1.0/24 | 4, 12008 | ⛑ |
| 1.2.3.0/24 | 4, 12008, 5, 777 | ✹ |
| 3.3.3.0/24 | 4, 12008, 7786 | ⛑ |

5
(BGP Simple)

| Local RIB | | |
|---|---|---|
| 1.2.0.0/16 | 5, 777 | 😇 |
| 1.1.1.0/24 | 5, 12008 | ⛑ |
| 1.2.3.0/24 | 5, 666 | 😈 |
| 2.2.2.0/24 | 5, 19905 | ⛑ |
| 3.3.3.0/24 | 5, 12008, 7786 | ⛑ |

1
(ROV V4 Lite K1)

| Local RIB | | |
|---|---|---|
| 1.2.0.0/16 | 1, 7786, 12008, 5, 777 | 😇 |
| 1.1.1.0/24 | 1, 7786, 12008 | ⛑ |
| 1.2.3.0/24 | 1, 7786, 12008, 5, 777 | ✹ |
| 3.3.3.0/24 | 1, 7786 | ⛑ |

😈 666 😈
(BGP Simple)

| Local RIB | | |
|---|---|---|
| 1.2.0.0/16 | 666, 5, 777 | 😈 |
| 1.1.1.0/24 | 666, 4, 12008 | 😈 |
| 1.2.3.0/24 | 666 | 😈 |
| 2.2.2.0/24 | 666, 5, 19905 | 😈 |
| 3.3.3.0/24 | 666, 4, 12008, 7786 | 😈 |

😇 777 😇
(BGP Simple)

| Local RIB | | |
|---|---|---|
| 1.2.0.0/16 | 777 | 😇 |
| 1.1.1.0/24 | 777, 5, 12008 | ⛑ |
| 1.2.3.0/24 | 777, 5, 666 | 😈 |
| 2.2.2.0/24 | 777, 19905 | ⛑ |
| 3.3.3.0/24 | 777, 5, 12008, 7786 | ⛑ |

(165 Guess)
Subprefix Hijack with V4 Lite k=1Relays NOT attacked and Not assumed reachable
CDN Neustar being used
Traceback for 1.2.3.0/24