Table 1: The detailed information of the patch dataset. In column 4 and column 8, "Benign" represents that the patch fixes the bug correctly, and "Faulty" represents that the patch fixes the bug incompletely or introduces a new bug.

Patch ID	Commit	Position	Type	Patch ID	Commit	Position	Туре
1	3f2db250099f	net/sched/cls_tcindex.c:309	Benign	32	83e197a8414c	sound/core/seq/seq_timer.c:300	Benign
2	c9a2f90f4d6b	drivers/block/nbd.c:2006	Benign	33	ed8157f1ebf1	net/sched/sch_taprio.c:919	Benign
3	b1a811633f73	drivers/block/nbd.c:1809	Benign	34	95fa145479fb	net/tls/tls_main.c:868	Faulty
4	2fd10bcf0310	drivers/misc/vmw_vmci/vmci_queue_ pair.c:542	Benign	35	d966ddcc3821	net/tipc/core.c:62	Faulty
5	b648eba4c69e	drivers/net/bonding/bond_main.c:434	Benign	36	411cef6adfb3	sound/core/oss/mixer_oss.c:316	Faulty
6	20aaef52eb08	drivers/scsi/scsi_ioctl.c:350	Benign	37	44d4775ca518	net/sched/sch_taprio.c:1625	Faulty
7	3b0c40612471	drivers/tty/vt/vt.c:1239	Benign	38	cf89af146b7e	fs/btrfs/volumes.c:1073	Faulty
8	ffb324e6f874	drivers/video/fbdev/core/fbcon.c:2068	Benign	39	48bb5697269a	net/ipv6/ip6_tunnel.c:1928	Faulty
9	01faae5193d6	drivers/video/fbdev/core/fbcon.c:1336	Benign	40	11c514a99bb9	fs/ext4/super.c:6384	Faulty
10	b2a616676839	fs/btrfs/volumes.c:1063	Benign	41	fdeba99b1e58	net/tipc/core.c:111	Faulty
11	4013d47a5307	fs/ext4/super.c:6893	Benign	42	304e024216a8	net/sched/cls_tcindex.c:154	Faulty
12	990e78116d38	drivers/block/loop.c:1726	Benign	43	07e6124a1a46	drivers/tty/tty_ioctl.c:136	Faulty
13	6b22489911b7	fs/ext4/xattr.c:2389	Benign	44	301428ea3708	net/smc/af_smc.c:709	Faulty
14	f671a691e299	fs/fcntl.c:154	Benign	45	730c5fd42c1e	net/rxrpc/local_object.c:403	Faulty
15	bda9a71980e0	fs/fuse/dir.c:1157	Benign	46	3c8fc8782044	net/ipv4/inet_fragment.c:164	Faulty
16	d5bf630f355d	fs/gfs2/util.c:123	Benign	47	0fedc63fadf0	net/sched/act_api.c:1008	Faulty
17	9b91b6b019fd	fs/overlayfs/file.c:437	Benign	48	fd1894224407	net/core/dev.c:4168	Faulty
18	eabac19e40c0	fs/squashfs/export.c:50	Benign	49	58acd1009226	net/sctp/auth.c:863	Faulty
19	d6e621de1fce	fs/squashfs/file.c:216	Benign	50	3f2893d3c142	net/bluetooth/mgmt.c:8936	Faulty
20	9913d5745bd7	kernel/tracepoint.c:340	Benign	51	c8713d0b2312	mm/memcontrol.c:1363	Faulty
21	6f68cd634856	net/batman-adv/main.c:193	Benign	52	341adeec9ada	net/smc/af_smc.c:677	Faulty
22	0 ee 4d55534f8	net/mac80211/ieee80211_i.h:1527	Benign	53	1fc70edb7d7b	net/core/dev_addr_lists.c:638	Faulty
23	757fed1d0898	mm/slub.c:5939	Benign	54	e198987e7dd7	drivers/net/gtp.c:803	Faulty
24	8ca34a13f7f9	net/netlabel/netlabel_cipso_v4.c:188	Benign	55	089bca2caed0	drivers/net/bonding/bond_main.c: 4298	Faulty
25	f123cffdd8fe	net/netlink/af_netlink.c:1855	Benign	56	309b66970ee2	net/openvswitch/vport-internal _dev.c:206	Faulty
26	093b036aa94e	net/qrtr/af_qrtr.c:446	Benign	57	16c243e99d33	drivers/dma-buf/udmabuf.c:225	Faulty
27	2a80c1581237	net/qrtr/tun.c:93	Benign	58	764f4eb6846f	net/llc/af_llc.c:314	Faulty
28	a11148e6fcce	net/rds/rdma.c:568	Benign	59	c47cc304990a	net/kcm/kcmsock.c:1069	Faulty
29	a56d447f196f	net/sched/sch_taprio.c:1656	Benign	60	c80a0c52d85c	drivers/infiniband/core/cma.c: 2535	Faulty
30	560ee196fe9e	net/sched/sch_fifo.c:236	Benign	61	055895537302	fs/io_uring.c:6478	Faulty
31	1b5ab825d9ac	net/wireless/sme.c:532	Benign	62	6c08fc896b60	net/bluetooth/l2cap_sock.c:1204	Faulty

Table 2: The detailed information of the known bugs dataset.

bug ID	Syzbot bug id	Position	bug ID	Syzbot bug id	Position
1	24a275e91595279d2803 8eb72a64fe00143fd2a4	fs/squashfs/export.c:43	51	7988319f1caa70d683b9 cb540b8b656f534caef7	kernel/bpf/verifier.c:14032
2	d524c1aac21f8ea2759b 6314c2e48bfa230c38b0	net/rds/rdma.c:567	52	9fa98e04385363b08013 093b659020d8dedae2ec	fs/hfs/bfind.c:76
3	1eb47c8b68c0b1e4dc38 0c47ef588c41a0bc9bab	drivers/block/nbd.c:2002	53	21b3a34a07ab87f239d7	fs/ntfs3/dir.c:255
4	67d5dc5f84651b05fc3c	net/qrtr/tun.c:82	54	ac684966e99c9bc5065e aaa35b314220404bbc2b	net/xfrm/xfrm_compat.c:571
5	2cb3d163037f414a10f4 08a86f0867ba0f092bf6	net/9p/client.c:1064	55	1c66067b0f9a623baa89 6ac17d26b59694aa04bc	fs/btrfs/volumes.c:944
6	ecbd6d5c2ae5e16a52d7 071122e4f772c1ec834c	drivers/gpu/drm/drm_fb_helper.c	56	6b423d94b444349682a5 c4fd25bc9502e9924e2b	net/netlabel/netlabel_kapi.c:565
	7a6facc0b5058d215481 48090fb069d2795ca20a	:766	57	0850151cbbf707fb2c31 a25ae9cae4c5adffac53	
7	c914718d1715b614eab7 314363322bad3d790451	net/qrtr/tun.c:92 drivers/misc/vmw_vmci/vmci		64e5f8aea4a098d01f41 c7c63c2548579c7e4718	fs/aio.c:2001
8	8d203c03288ff2edbd17 f7c5a86e747f9b7ce333	_queue_pair.c:539	58	d2f8bc079a6e152e4ac8 6d40ea5ee0f0513c07ec	net/netfilter/nf_tables_api.c:7233
9	e7295875cd4ede2c7a0d 527a000e3a661da4fcb2	xdp/xdp_umem.c:101	59	0967f0a350627e9cd773 d5ffb9da8352927dd8f1	ipc/mqueue.c:486
10	9f48baab94242b3cb2fb	kernel/bpf/btf.c:3897	60	7911b5e7ed9d75df89ff	net/rxrpc/local_object.c:225
11	15bf7d92374ccf44446d 19de1fc0e11724b632a2	fs/gfs2/util.c:293	61	8d094d6bc5fba75ff8d0 65959e44152c39e58690	net/rxrpc/output.c:452
12	3045112ecdaa5f408058 d95b2d216fc00cd14b74	net/mac80211/sta_info.c:485	62	6dc9ae7ccfcf2d2e5237 d4e68f1c9f63e866d0ef	mm/madvise.c:213
13	2d08de6cbeceee7f4e72 81025630ec004a924496	net/wireless/util.c:1047	63	a2be40e6b1f00c6ee2a9 aeaaf1a7288c7fee50bd	fs/ntfs3/record.c:311
14	c54b440ca738afc4ba82 c15ef998e5262a605773	net/wireless/sme.c:531	64	874c5bfa1234dcef0005 74388df68a8d08274ecd	fs/hfsplus/super.c:474
15	26567b12e74b8791e1db 50da6039ee1705e5a7ed	drivers/video/fbdev/core/fbcon.c :1411	65	933dab9c03ac47a3d09d d4b0563a0a8fcb35f282	fs/ntfs/super.c:2894
16	08d09127d5fca845e6d9 4dea344c5b758bc45615	net/rxrpc/sendmsg.c:747	66	b4b6dad65d796de5a6cc b88adcaf073e297af4e2	fs/reiserfs/super.c:2082
17	59a8b2b621a7e8fb23ac 85cd5f125f504cebfee9	drivers/video/fbdev/vga16fb.c :1175	67	34b3d29c783f19d70086 206194da85e59c448167	net/netfilter/nft_ct.c:616
18	113d9a01cbe0af3e2916 33ba7a7a3e983b86c3c0	fs/btrfs/super.c:1722	68	891fc6743a5dd803220c efaf63f5fd49cce41e17	fs/squashfs/lzo_wrapper.c:81
19	41f4318cf01762389f4d 1c1c459da4f542fe5153	kernel/trace/bpf_trace.c:2152	69	e6fe663a4b5df623751e 8f8fb09560334ccf36da	fs/btrfs/volumes.c:1361
20	4e64527ff2975b1f21db 4650b9bc5775c715bd77	fs/squashfs/file.c:242	70	16a7f16e9182bbfdbd21 42306a82a41d4debb670	fs/squashfs/inode.c:121
21	1ce224deef468aa150f3 6b7aef5144db9d83d43a	kernel/watch_queue.c:273	71	d8c00bae1644df59696f 2d74d1955fd286691234	fs/reiserfs/xattr.c:1013
22	da3a527201079abb6c7b	net/sched/sch_taprio.c:998	72	6312526 aba5 be ae 046 fd	fs/namei.c:3523
23	aceb0394c4b1daf6ad1e 3d5252b25c09861fb965	drivers/block/nbd.c:1736	73	ae8f00399f87aab48b12 137d03025175e4ce5bae	fs/erofs/decompressor.c:227
24	a45c6623a6c923dae9de 03c2ae9146416edf8119	drivers/block/nbd.c:1828	74	ad3c5fd1776e8fd91103 bcc246d137428d00ed14	net/bluetooth/sco.c:523
	58d5fd7acfab75b143d1 3d48c91ba894fb986f24		75	b476c2068579515fe2bc 5de20befde5f05afead7	·
25	e94797aca34b0149a6fc 98e180f1c913a84073ba	block/genhd.c:611		cffac9fb110c1d760909 0510121e3820bdc7757b	fs/ntfs/inode.c:999
	5a4bfdda55a12f8b3f89 1b01ae0c2f54ed3f7fbe	fs/ext4/super.c:6607	76	06a56012c97e681f2220 62d6a292ad633abc9ce6	fs/io_uring.c:3460
27	b9f13378c84f2aaed51f 699e4f546c33df9781a6	net/sched/cls_tcindex.c:307	77	159dec8e8ac5b0455b19 6bf42326e0930f0a844a	block/partitions/core.c:427
28	7891d42766bbbe3ca30b	fs/fuse/dir.c:1120	78	1 d53256 c0 fb 15423 dda 1	net/sched/cls_api.c:3238
29	c391f74aac26dd8311c4 5743ae618f9d5e38b674	include/net/gre.h:140	79	738e37fee508c33dd12a 3693bc1790085ac07a50	net/ipv4/tcp_cong.c:218
30	7787ea8a8ec228b5ea0a cb1e9ac8373271ef8bdd	net/core/dev.c:3701	80	96e7d345748d8814901c 91cd92084ed04b46701e	net/ipv4/cipso_ipv4.c:1867
31	570143a6cf76ecc707a1 bf50b90487db44ec850b	fs/splice.c:766	81	507c1be447a4c69f108a 0b8cd281fcab44eaf774	fs/io_uring.c:8999
32	e3cd8df8330f976efd72 c1a562e96c44a1f2431f	net/sched/sch_api.c:1298	82	205c40dcecd95c945062 2ce281aef3ee26b44cff	fs/io_uring.c:6054
33	d4bc7d67efe79c6ead3c b6bd94b84dbd287f1069	net/netlabel/netlabel_cipso_v4.c :187	83	47982c8ccf5d31f14e8a 173a5982667b36616bc6	mm/madvise.c:794
34	0421a448a695664b5952 adad46879b96d82d6a36	block/scsi_ioctl.c:357	84	d894f245105f59f78817 7ae2f53df8ffce3ec1ac	drivers/net/vxlan/vxlan_vnifilter.c:429
35	31216a0f4941f9e070a4 ba59723ddd50c355fe24	net/sched/sch_fifo.c:241	85	e675fbaf856bd1465eed 8b8f51ae182b58b8d656	fs/namespace.c:161

36	f381deedf1e8d44b545a	sound/core/seq/seq_queue.c:171	86	7f84dfc3902878befc22	fs/io_uring.c:9477	
	5ab112c1747f75fb57d6	sound/core/seq/seq_queue.c.171		e52eb5c7298d0ad70cf3		
37	223c64b1a2c03f0d67d6	net/batman-adv/main.c:225	87	c28952126847f6e6af55	net/mac80211/iface.c:2008	
	4fdf69606ee2d5e26672	Het/ batman-adv/ mam.c.225	01	b800915c9dbd5286abf4	net/macouzii/nace.c.zuuo	
38	31a3f2ad09a571fb7a52	fs/ext4/extents_status.c:897	88	fdb203aad0287c069dfb	sound/core/oss/mixer_oss.c:601	
	12efc400ce6bfc82e04c	is/ext4/extents_status.c.og/		f8c6d518285c5b4fb64d	Sound, core, oss, mixer_oss.c:001	
39	362b5b49fced29361c0b	drivers/infiniband/core/cma.c:2584	89	4b1e9cf490ffaaa8d9b8	kernel/cgroup/cgroup.c:3629	
	a3007a2b3e5cd13776b5	drivers/immiband/core/cina.c.2564		7c2db04490923603aedd	kerner/egroup/egroup.c.3029	
40	8ffdea60c2a35e0c6471	mat/mass00011/afmas1601	90	b32fa08468c9e84e3612	net/packet/af_packet.c:4461	
	86e9589873f6baa7cb32	net/mac80211/cfg.c:1681	90	96e1bc502283ea202ec6		
41	0be4824a86385f022a4f	sound/sons/sos/non-plumin si70	91	517fa734b92b7db404c4	amount a /amount a morth a 199	
	6f5104bcb9246032fdd9	sound/core/oss/pcm_plugin.c:70		09b924cf5c997640e324	crypto/crypto_null.c:88	
42	67c06f27e8efe15830eb	11/1/	92	a59816f87c8e514d1b5e	f-/:/-///	
	8ff6ee742380e18c3d9b	kernel/dma/mapping.c:263		d891ae85341fbef1e553	fs/iomap/direct-io.c:657	
43	c1408bfc99ec00b14d16	f-/+4/+1020	93	367aa2bfd93ca7790fe6	sound/core/oss/pcm_oss.c:1691	
43	d1fce95336e0a22d454d	fs/ext4/xattr.c:1639		312dc55fd86dff54dd11	sound/core/oss/pcm_oss.c:1091	
44	4a547542bb29dc957c09	fo/out//indinest a:1949	94	e67f2fc09051eb946866	drivers/net/tun.c:3410	
44	6f0c95ef9154e93d68d3	fs/ext4/indirect.c:1243		8787bdd8b5b793ece606		
45	4d666adb3fbcfe329b8c		95	c46757660a2b99103a2f	1.:	
45	c75958b976aea0a3c48a	mm/mremap.c:498		46a15bfcd8d687d5dabc	drivers/video/fbdev/core/fbcon.c:243	
46	3ac451d171eed4f6027b		96	cb9bdbd80adefc7da4aa	fs/fscache/volume.c:172	
40	4c46176f6eda99e8547b	net/socket.c:1123		5c2894a9c89f3bafd60c		
47	4710b830601445fbfcee		97	4b0830ac666c3cae3509	net/sctp/auth.c:867	
47	1d0bc64531b13b9ca57f	net/smc/smc_pnet.c:316		04be00dca27f8be86715		
48	4c4af2385654d032d648	f-/50f-/1C11	98	f5697a2cc8cc739814a8	1: / //: 1 /: 1 /: 1	
	0051e771ade1732f2ecc	fs/f2fs/node.c:611		7d3755258160e812c9dd	drivers/net/ipvlan/ipvlan_core.c:598	
49	1870dd7791ba05f2ea7f	1	99	345d17288acb20f42c7a	1/0 / 1: 1 000	
	47f7cbdde701173973fc	kernel/watch_queue.c:205		83874b03d00dd662f8eb	net/9p/client.c:992	
50	558888413b9d65634d5d	drivers/net/bonding/bond_main.c	100	897c1d13df86f25965e7	net/netfilter/nf_tables_api.c:2258	
	d0a2d860c4bbf6651d51	:410		86c51f023df82e991c37		