

ProteusDevice

Mobile secure computing device for developers

Kernel source code

```

64 /**
65  * notifier_call_chain - Informs the registered notifiers about an event.
66  * @nl: Pointer to head of the blocking notifier chain
67  * @val: Value passed unmodified to notifier function
68  * @nr_calls: Number of notifier functions to be called. Don't care
69  *           value of this parameter is 1.
70  * @nr_calls: Records the number of notifications sent. Don't care
71  *           value of this field is NULL.
72  * @returns: notifier_call_chain returns the value returned by the
73  *           last notifier function called.
74  */
75 static int notifier_call_chain(struct notifier_block **nl,
76                               unsigned long val, void *v,
77                               int nr_to_call, int *nr_calls)
78 {
79     int ret = NOTIFY_DONE;
80     struct notifier_block *nb;
81     nb = rcu_dereference_raw(*nl);
82     while (nb && nr_to_call) {
83         while (nb && nr_to_call) {
84             next_nb = rcu_dereference_raw(nb->next);
85             nb = next_nb;
86             nr_to_call--;
87         }
88         #ifdef CONFIG_DEBUG_NOTIFIERS
89         if (unlikely(!func_ptr_is_kernel_text((nb->notifier_call)))) {
90             WARN_ONCE("Invalid notifier called!");
91             nb = next_nb;
92             continue;
93         }
94         #endif
95         ret = nb->notifier_call(nb, val, v);
96         if (nr_calls)
97             (*nr_calls)++;
98         if (ret & NOTIFY_STOP_MASK)
99             break;
100         nb = next_nb;
101         nr_to_call--;
102     }
103     return ret;
104 }

```

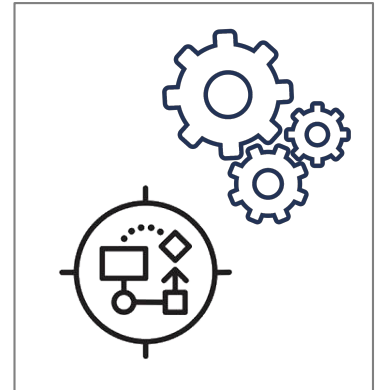
Applications source code

```

55 static QObjectAttachedObject *findAttachedParent(const QObject *type, QObject *object)
56 {
57     QObjectItem *item = qobject_cast<QObjectItem*>(object);
58     if (item) {
59         // Lookup parent items and popups
60         QObjectItem *parent = item->parentItem();
61         while (parent) {
62             QObjectAttachedObject *attached = attachedObject(type, parent);
63             if (attached)
64                 return attached;
65             QObjectPopup *popup = qobject_cast<QObjectPopup*>(parent->parent());
66             if (popup)
67                 return attachedObject(type, popup);
68             parent = parent->parentItem();
69         }
70         // fallback to item's window
71         QObjectAttachedObject *attached = attachedObject(type, item->window());
72         if (attached)
73             return attached;
74     } else {
75         // Lookup popup's window
76         QObjectPopup *popup = qobject_cast<QObjectPopup*>(object);
77         if (popup)
78             return attachedObject(type, popup->popupItem()->window());
79     }
80 }

```

Build environment



PriveOS platform

Mobile device

- Mobile Secure Computing device
- Computational freedom
- *Not a mobile phone – no sim*

Features

- 100 % Linux computer
- 100 % source visible
- 5" Touch Screen
- iMX6 ARM CPU
- 1 GB RAM, 8 GB eMMC
- Audio
- Micro USB (charging only)
- System connector
- 100 Mbit/s hardware Ethernet
- WiFi with external antenna

Software

- Latest Linux 5.4 kernel
- PriveOS operating system
- This is not an Android device (!)
- No 'known unknowns' included



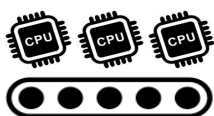
Application areas

- COMSEC & INFOSEC
- Authentication platform
- Critical Infrastructure IoT
- Penetration Testing tool
- Red Teaming
- Critical Comm's
- MESH network device
- Off-The-Grid applications

MPP protocol

- XXLSEC developed Multi Party Consensus protocol supported
- National key math
- Secure cipher key consensus
- National cipher(s)
- Zero META DATA
- Forensically Secure
- MPP available separately

Software and hardware manufactured in Finland



SUPPLY CHAIN



SOURCE CODE



SCHEMATICS



MECHANICS



MANUFACTURING