

Oracle® Enterprise
Session Border Controller – S-Cz9.3.0

Program Documentation – License Document

March 2024

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Product	Subproduct	Licensing Description
Oracle Enterprise Session Border Controller	Oracle Enterprise Session Border Controller (base fee) – Integrated Software Option – Per Server Metric	<p>Product Editions and Permitted Features</p> <p>This license (available on a per server basis) provides access to base Operating System and basic node management functions such as CLI (Command Line Interface), FTP (file transfer protocol) and SNMP (Simple Network Management Protocol). The following features are available with the base license:</p> <p>ACP (Acme Control Protocol) - Allows Oracle Enterprise Session Border Controller system to respond to external ACP requests (required for Oracle Delivery Management Suite).</p> <p>SIP (Session Initiation Protocol) – Enables all SIP functionality on the Oracle Enterprise SBC.</p> <p>H.323 – Enables H.323 functionality (response to/forward H.323 signaling messages and set up H.323 sessions based on system configuration). Allows configuration of H.323-related configuration objects.</p> <p>DOS – Enables Denial of Service protection functionality that protects network infrastructure, including the SBC, by providing signaling and media traffic attack detection and policing, and static and dynamic access control.</p> <p>HA (High Availability) - Enables sending and receiving HA heartbeat and check-pointing messages to an HA Peer and take over or relinquish Active status. Allows configuration of the redundancy configuration object.</p> <p>IDS (Intrusion Detection) – Allows configuration of traps sent when endpoints are demoted to “denied” status. Allows configuration of syslog messages to be recorded when endpoints are demoted to “denied” status. Enables dynamic demotion of endpoints based upon CAC (call</p>

Product	Subproduct	Licensing Description
		<p>admission control) failures.</p> <p>IDS Advanced – This feature adds the ability to track total number of rejected SIP calls system-wide.</p> <p>National Emergency Services (NSEP) - Enables support for Emergency Telecommunications Service (ETS), which gives priority treatment for National Security and Emergency Preparedness (NSEP) communications in IP network infrastructures.</p> <p>SIPREC – Enables Oracle Enterprise SBC to replicate sessions to a session recorder according to the SIPREC standard</p> <p>SRTP (Secure Real-Time Transport Protocol) – Enables SRTP (SDES and DTLS) media encryption.</p> <p>TLS (Transport Layer Security) – Enables cryptographic security for the SIP protocol. This feature is subject to export controls.</p> <p>IPFIX interface – The IPFIX custom interface on the SBC allows for monitoring packet level data. This interface is restricted to be used on the Oracle Communications Monitoring of products.</p> <p>Prerequisite Products Acme Packet 3900, 4600, or 6350 platform</p> <p>Entitled Products and Restricted Use Licenses N/A</p>
	<p>Oracle Enterprise Session Border Controller, SMB Edition (base fee) – Integrated Software Option – Per Server Metric</p>	<p>Product Editions and Permitted Features</p> <p>This license (available on a per server basis) provides access to base Operating System and basic node management functions such as CLI (Command Line Interface), FTP (file transfer protocol) and SNMP (Simple Network Management Protocol). The following features are available with the base license:</p> <p>ACP (Acme Control Protocol) - Allows Oracle Enterprise Session Border Controller system to respond to external ACP requests (required for Oracle Communications Session Delivery Management Suite).</p> <p>SIP (Session Initiation Protocol) – Enables all SIP functionality on the Oracle Enterprise SBC.</p> <p>H.323 – Enables H.323 functionality (response to/forward H.323 signaling messages and set up H.323 sessions based on system configuration). Allows configuration of H.323-related configuration objects.</p> <p>DOS – Enables Denial of Service protection functionality that protects network infrastructure, including the SBC, by providing signaling and media traffic attack detection and</p>

Product	Subproduct	Licensing Description
		<p>policing, and static and dynamic access control.</p> <p>HA (High Availability) - Enables sending and receiving HA heartbeat and check-pointing messages to an HA Peer and take over or relinquish Active status. Allows configuration of the redundancy configuration object.</p> <p>IDS (Intrusion Detection) - Allows configuration of traps sent when endpoints are demoted to “denied” status. Allows configuration of syslog messages to be recorded when endpoints are demoted to “denied” status. Enables dynamic demotion of endpoints based upon CAC (call admission control) failures.</p> <p>IDS Advanced - This feature adds the ability to track total number of rejected SIP calls system-wide.</p> <p>National Emergency Services (NSEP) - Enables support for Emergency Telecommunications Service (ETS), which gives priority treatment for National Security and Emergency Preparedness (NSEP) communications in IP network infrastructures.</p> <p>SIPREC - Enables Oracle Enterprise SBC to replicate sessions to a session recorder according to the SIPREC standard</p> <p>SRTP (Secure Real-Time Transport Protocol) - Enables SRTP (SDS and DTLS) media encryption.</p> <p>TLS (Transport Layer Security) - Enables cryptographic security for the SIP protocol. This feature is subject to export controls.</p> <p>IPFIX interface - The IPFIX custom interface on the SBC allows for monitoring packet level data. This interface is restricted to be used on the Oracle Communications Monitoring products.</p> <p>Prerequisite Products Acme Packet 1100 platform</p> <p>Entitled Products and Restricted Use Licenses N/A</p>
	<p>Oracle Enterprise Session Border Controller – Integrated Software Option – per 5 Concurrent Sessions Metric</p>	<p>Product Editions and Permitted Features This license enables several concurrent sessions by Oracle Enterprise Session Border Controller (ISO session capacity) for all protocols combined (SIP, H.323).</p> <p>Pre-requisite Products</p> <ul style="list-style-type: none"> • Oracle Enterprise Session Border Controller (base fee) – Integrated Software Option – per Server Metric <p>OR</p> <ul style="list-style-type: none"> • Oracle Enterprise Session Border Controller, SMB Edition

Product	Subproduct	Licensing Description
		<p>(base fee) – Integrated Software Option – per Server Metric</p> <p>Entitled Products and Restricted Use Licenses N/A</p>
	<p>Oracle Enterprise Session Border Controller – Network-Wide Concurrent Session Perpetual</p>	<p>Product Editions and Permitted Features</p> <p>This license enables several concurrent sessions by Oracle Enterprise Session Border Controller (ISO session capacity) for all protocols combined (SIP, H.323).</p> <p>This license (available on a per server basis) provides access to base Operating System and basic node management functions such as CLI (Command Line Interface), FTP (file transfer protocol) and SNMP (Simple Network Management Protocol). The following features are available with the base license:</p> <p>ACP (Acme Control Protocol) – Allows Oracle Enterprise Session Border Controller system to respond to external ACP requests (required for Oracle Communications Session Delivery Management Suite).</p> <p>SIP (Session Initiation Protocol) – Enables all SIP functionality on the Oracle Enterprise SBC.</p> <p>H.323 – Enables H.323 functionality (response to/forward H.323 signaling messages and set up H.323 sessions based on system configuration). Allows configuration of H.323-related configuration objects.</p> <p>DOS – Enables Denial of Service protection functionality that protects network infrastructure, including the SBC, by providing signaling and media traffic attack detection and policing, and static and dynamic access control.</p> <p>HA (High Availability) – Enables sending and receiving HA heartbeat and check-pointing messages to an HA Peer and take over or relinquish Active status. Allows configuration of the redundancy configuration object.</p> <p>IDS (Intrusion Detection) – Allows configuration of traps sent when endpoints are demoted to “denied” status. Allows configuration of syslog messages to be recorded when endpoints are demoted to “denied” status. Enables dynamic demotion of endpoints based upon CAC (call admission control) failures.</p> <p>IDS Advanced – This feature adds the ability to track total number of rejected SIP calls system-wide.</p> <p>National Emergency Services (NSEP) – Enables support for Emergency Telecommunications Service (ETS), which gives priority treatment for National Security and Emergency Preparedness (NSEP) communications in IP network</p>

Product	Subproduct	Licensing Description
		<p>infrastructures.</p> <p>SIPREC – Enables Oracle Enterprise SBC to replicate sessions to a session recorder according to the SIPREC standard</p> <p>SRTP (Secure Real-Time Transport Protocol) – Enables SRTP (SDS and DTLS) media encryption.</p> <p><u>Exceptions</u>: Not applicable to VME. Requires separate SRTP license.</p> <p>TLS (Transport Layer Security) – Enables cryptographic security for the SIP protocol. This feature is subject to export controls.</p> <p><u>Exceptions</u>: Not applicable to VME. Requires separate TLS license.</p> <p>IPFIX interface – The IPFIX custom interface on the SBC allows for monitoring packet level data. This interface is restricted to be used on the Oracle Communications Monitoring products.</p> <p>Pre-requisite Products</p> <ul style="list-style-type: none"> • Supported virtualized platform <p>OR</p> <ul style="list-style-type: none"> • Acme Packet 1100, 3900, 4600, or 6350 platform <p>Entitled Products and Restricted Use Licenses</p> <p>N/A</p>
	<p>Oracle Enterprise Session Border Controller – Network-Wide Concurrent Session - Subscriptions</p>	<p>Product Editions and Permitted Features</p> <p>This license enables several concurrent sessions by Oracle Enterprise Session Border Controller (ISO session capacity) for all protocols combined (SIP, H.323).</p> <p>This license provides access to base Operating System and basic node management functions such as CLI (Command Line Interface), FTP (file transfer protocol) and SNMP (Simple Network Management Protocol). The following features are available with the base license:</p> <p>ACP (Acme Control Protocol) – Allows Oracle Enterprise Session Border Controller system to respond to external ACP requests (required for Oracle Communications Session Delivery Management Suite).</p> <p>SIP (Session Initiation Protocol) – Enables all SIP functionality on the Oracle Enterprise SBC.</p> <p>H.323 – Enables H.323 functionality (response to/forward H.323 signaling messages and set up H.323 sessions based on system configuration). Allows configuration of H.323-related configuration objects.</p> <p>DOS – Enables Denial of Service protection functionality that protects network infrastructure, including the SBC, by</p>

Product	Subproduct	Licensing Description
		<p>providing signaling and media traffic attack detection and policing, and static and dynamic access control.</p> <p>HA (High Availability) – Enables sending and receiving HA heartbeat and check-pointing messages to an HA Peer and take over or relinquish Active status. Allows configuration of the redundancy configuration object.</p> <p>IDS (Intrusion Detection) – Allows configuration of traps sent when endpoints are demoted to “denied” status. Allows configuration of syslog messages to be recorded when endpoints are demoted to “denied” status. Enables dynamic demotion of endpoints based upon CAC (call admission control) failures.</p> <p>IDS Advanced – This feature adds the ability to track total number of rejected SIP calls system-wide.</p> <p>National Emergency Services (NSEP) – Enables support for Emergency Telecommunications Service (ETS), which gives priority treatment for National Security and Emergency Preparedness (NSEP) communications in IP network infrastructures.</p> <p>SIPREC – Enables Oracle Enterprise SBC to replicate sessions to a session recorder according to the SIPREC standard</p> <p>SRTP (Secure Real-Time Transport Protocol) – Enables SRTP (SDS and DTLS) media encryption. <u>Exceptions:</u> Not applicable to VME. Requires separate SRTP license.</p> <p>TLS (Transport Layer Security) – Enables cryptographic security for the SIP protocol. This feature is subject to export controls. <u>Exceptions:</u> Not applicable to VME. Requires separate TLS license.</p> <p>IPFIX interface – The IPFIX custom interface on the SBC allows for monitoring packet level data. This interface is restricted to be used on the Oracle Communications Monitoring products.</p> <p>Pre-requisite Products</p> <ul style="list-style-type: none"> • Supported virtualized platform <p>OR</p> <ul style="list-style-type: none"> • Acme Packet 1100, 3900, 4600, or 6350 platform <p>Entitled Products and Restricted Use Licenses N/A</p>
Session Capacity Based Licenses		

Product	Subproduct	Licensing Description
	Oracle Enterprise Session Border Controller, Administrative Security - Integrated Software Option - per 5 Concurrent Sessions Metric	<p>Product Editions and Permitted Features</p> <p>Enables increased administrative security capabilities of the system for password strength, password usage policies, user roles, and management of administrative users.</p> <p>Pre-requisite Products</p> <ul style="list-style-type: none"> Oracle Enterprise Session Border Controller - Integrated Software Option session capacity <p>This license requires an equal number of ISO session capacity licenses.</p> <p>Entitled Products and Restricted Use Licenses</p> <p>N/A</p>
	Oracle Enterprise Session Border Controller, Administrative Security - Network-Wide Concurrent Session Perpetual	<p>Product Editions and Permitted Features</p> <p>Enables increased administrative security capabilities of the system for password strength, password usage policies, user roles, and management of administrative users.</p> <p>Pre-requisite Products</p> <ul style="list-style-type: none"> Oracle Enterprise Session Border Controller session capacity <p>This license requires an equal number of session capacity licenses.</p> <p>Entitled Products and Restricted Use Licenses</p> <p>N/A</p>
	Oracle Enterprise Session Border Controller, Administrative Security - Network-Wide Concurrent Session Subscriptions	<p>Product Editions and Permitted Features</p> <p>Enables increased administrative security capabilities of the system for password strength, password usage policies, user roles, and management of administrative users.</p> <p>Pre-requisite Products</p> <ul style="list-style-type: none"> Oracle Enterprise Session Border Controller session capacity <p>This license requires an equal number of session capacity licenses.</p> <p>Entitled Products and Restricted Use Licenses</p> <p>N/A</p>
	Oracle Enterprise Session Border Controller, Advanced - Integrated Software Option - per 5 Concurrent Sessions	<p>Product Editions and Permitted Features</p> <p>Includes the following features:</p> <p>Accounting - Allows Oracle Enterprise Session Border Controller to create call accounting records using Radius or by collecting the information in flat files that can stored locally or pushed via FTP to an external server.</p>

Product	Subproduct	Licensing Description
	Metric	<p>Fraud Protection – Enables the ability to whitelist, blacklist, rate limit, re-direct and terminate calls on the network.</p> <p>IPSec – Enables the use of IPsec protocol (including IKEv1, IKEv2 or manual keys) for protecting signaling and media. <u>Prerequisites:</u> SSM3 module (for Acme Packet 4600, or 6350 platforms only – not required for Acme Packet 1100 or 3900)</p> <p>IPv4 - IPv6 Interworking – Enables IPv4-IPv6 interworking for signaling and media. Pure IPv6 functionality works without the license being present. <u>Exceptions:</u> Not supported on Acme Packet 1100 or 3900 platforms</p> <p>IWF Protocol – Enables Signaling Interworking (such as response to/forward SIP-H.323 signaling messages and set up SIP-H.323 sessions based on system configuration). Allows configuration of IWF-related configuration objects.</p> <p>Load Balancing – Allows configuration and use of Session Agent Groups in order to perform sophisticated load balancing of traffic across core network elements.</p> <p>Quality of Service – Enables collection and reporting of Quality of Service (QoS) data (lost packets, jitter, and latency) for session media.</p> <p>Ringback Tone Generation – Allows the Session Border Controller to generate ringback tones locally</p> <p>Routing – Enables configuration and use of routing (local policy) parameters for signaling protocols supported. This includes access to configuration elements such as cost, start and end times, days of week, media profiles, and carrier elements. The following features are included in this license:</p> <ul style="list-style-type: none"> • ENUM Database support • LRT (local route table) <p>Pre-requisite Products</p> <ul style="list-style-type: none"> • Oracle Enterprise Session Border Controller – Integrated Software Option session capacity <p>This license requires an equal number of ISO session capacity licenses.</p> <p>Entitled Products and Restricted Use Licenses N/A</p>
	Oracle Enterprise Session Border Controller, Advanced – Network-Wide Concurrent Session	<p>Product Editions and Permitted Features</p> <p>Includes the following features:</p> <p>Accounting – Allows Oracle Enterprise Session Border Controller to create call accounting records using Radius or</p>

Product	Subproduct	Licensing Description
	Perpetual	<p>by collecting the information in flat files that can stored locally or pushed via FTP to an external server.</p> <p>Fraud Protection – Enables the ability to whitelist, blacklist, rate limit, re-direct and terminate calls on the network.</p> <p>IPSec – Enables the use of IPsec protocol (including IKEv1, IKEv2 or manual keys) for protecting signaling and media. <u>Prerequisites:</u> SSM3 module (for Acme Packet 4600, or 6350 platforms only – not required for Acme Packet 1100 or 3900) <u>Exceptions:</u> Not applicable to VME. Requires separate IPSec license.</p> <p>IPv4 - IPv6 Interworking – Enables IPv4-IPv6 interworking for signaling and media. Pure IPv6 functionality works without the license being present. <u>Exceptions:</u> Not available on Acme Packet 1100 or 3900 platforms</p> <p>IWF Protocol – Enables Signaling Interworking (such as response to/forward SIP-H.323 signaling messages and set up SIP-H.323 sessions based on system configuration). Allows configuration of IWF-related configuration objects.</p> <p>Load Balancing – Allows configuration and use of Session Agent Groups in order to perform sophisticated load balancing of traffic across core network elements.</p> <p>Quality of Service – Enables collection and reporting of Quality of Service (QoS) data (lost packets, jitter, and latency) for session media.</p> <p>Ringback Tone Generation – Allows the Session Border Controller to generate ringback tones locally</p> <p>Routing – Enables configuration and use of routing (local policy) parameters for signaling protocols supported. This includes access to configuration elements such as cost, start and end times, days of week, media profiles, and carrier elements. The following features are included in this license:</p> <ul style="list-style-type: none"> • ENUM Database support • LRT (local route table) <p>Pre-requisite Products</p> <ul style="list-style-type: none"> • Oracle Enterprise Session Border Controller session capacity <p>This license requires an equal number of session capacity licenses.</p> <p>Entitled Products and Restricted Use Licenses N/A</p>
	Oracle Enterprise	Product Editions and Permitted Features

Product	Subproduct	Licensing Description
	Session Border Controller, Advanced – Network-Wide Concurrent Session Subscriptions	<p>Includes the following features:</p> <p>Accounting – Allows Oracle Enterprise Session Border Controller to create call accounting records using Radius or by collecting the information in flat files that can stored locally or pushed via FTP to an external server.</p> <p>Fraud Protection – Enables the ability to whitelist, blacklist, rate limit, re-direct and terminate calls on the network.</p> <p>IPSec – Enables the use of IPsec protocol (including IKEv1, IKEv2 or manual keys) for protecting signaling and media. <u>Prerequisites:</u> SSM3 module (for Acme Packet 4600, or 6350 platforms only – not required for Acme Packet 1100 or 3900) <u>Exceptions:</u> Not applicable to VME. Requires separate IPSec license.</p> <p>IPv4 - IPv6 Interworking – Enables IPv4-IPv6 interworking for signaling and media. Pure IPv6 functionality works without the license being present. <u>Exceptions:</u> Not available on Acme Packet 1100 or 3900 platforms</p> <p>IWF Protocol – Enables Signaling Interworking (such as response to/forward SIP-H.323 signaling messages and set up SIP-H.323 sessions based on system configuration). Allows configuration of IWF-related configuration objects.</p> <p>Load Balancing – Allows configuration and use of Session Agent Groups in order to perform sophisticated load balancing of traffic across core network elements.</p> <p>Quality of Service – Enables collection and reporting of Quality of Service (QoS) data (lost packets, jitter, and latency) for session media.</p> <p>Ringback Tone Generation – Allows the Session Border Controller to generate ringback tones locally</p> <p>Routing – Enables configuration and use of routing (local policy) parameters for signaling protocols supported. This includes access to configuration elements such as cost, start and end times, days of week, media profiles, and carrier elements. The following features are included in this license:</p> <ul style="list-style-type: none"> • ENUM Database support • LRT (local route table) <p>Pre-requisite Products</p> <ul style="list-style-type: none"> • Oracle Enterprise Session Border Controller session capacity <p>This license requires an equal number of session capacity licenses.</p>

Product	Subproduct	Licensing Description
		<p>Entitled Products and Restricted Use Licenses N/A</p>
	<p>Oracle Enterprise Session Border Controller, Advanced Media Termination – Integrated Software Option – per 5 Concurrent Sessions Metric</p>	<p>Product Editions and Permitted Features Enables support for handling RTC media, via the following features:</p> <ul style="list-style-type: none"> • RTP / RTCP multiplexing (per RFC 5761) • ICE lite (per RFC 5245) • STUN <p>Pre-requisite Products</p> <ul style="list-style-type: none"> • Oracle Enterprise Session Border Controller – Integrated Software Option session capacity <p>This license requires an equal number of ISO session capacity licenses.</p> <p>Entitled Products and Restricted Use Licenses N/A</p>
	<p>Oracle Enterprise Session Border Controller, Advanced Media Termination – Network-Wide Concurrent Session Perpetual</p>	<p>Product Editions and Permitted Features Enables support for handling RTC media, via the following features:</p> <ul style="list-style-type: none"> • RTP / RTCP multiplexing (per RFC 5761) • ICE lite (per RFC 5245) • STUN <p>Pre-requisite Products</p> <ul style="list-style-type: none"> • Oracle Enterprise Session Border Controller session capacity <p>This license requires an equal number of session capacity licenses.</p> <p>Entitled Products and Restricted Use Licenses N/A</p>
	<p>Oracle Enterprise Session Border Controller, Advanced Media Termination – Network-Wide Concurrent Session Subscriptions</p>	<p>Product Editions and Permitted Features Enables support for handling RTC media, via the following features:</p> <ul style="list-style-type: none"> • RTP / RTCP multiplexing (per RFC 5761) • ICE lite (per RFC 5245) • STUN <p>Pre-requisite Products</p> <ul style="list-style-type: none"> • Oracle Enterprise Session Border Controller session capacity

Product	Subproduct	Licensing Description
		<p>This license requires an equal number of session capacity licenses.</p> <p>Entitled Products and Restricted Use Licenses N/A</p>
	<p>Oracle Enterprise Session Border Controller, Advanced Security Suite – Integrated Software Option – per 5 Concurrent Sessions Metric</p>	<p>Product Editions and Permitted Features Combines the Data Integrity and Administrative Security features. Features. An ESBC configured with this license complies with the US government Defense Information Systems Agency JITC specification UCR2013.</p> <p>Admin Security – Enables increased administrative security capabilities of the system for password strength, password usage policies, user roles, and management of administrative users.</p> <p>FIPS – Strengthens the privacy provided by the ESBC’s cryptographic module to the levels required by the FIPS 140-2 Standards.</p> <p>Pre-requisite Products</p> <ul style="list-style-type: none"> • Oracle Enterprise Session Border Controller – Integrated Software Option session capacity <p>This license requires an equal number of ISO session capacity licenses.</p> <p>Entitled Products and Restricted Use Licenses N/A</p>
	<p>Oracle Enterprise Session Border Controller, Advanced Security Suite – Network-Wide Concurrent Session Perpetual</p>	<p>Product Editions and Permitted Features Combines the Data Integrity and Administrative Security features. Features. An ESBC configured with this license complies with the US government Defense Information Systems Agency JITC specification UCR2013.</p> <p>Admin Security – Enables increased administrative security capabilities of the system for password strength, password usage policies, user roles, and management of administrative users.</p> <p>FIPS – Strengthens the privacy provided by the ESBC’s cryptographic module to the levels required by the FIPS 140-2 Standards.</p> <p>Pre-requisite Products</p> <ul style="list-style-type: none"> • Oracle Enterprise Session Border Controller session capacity <p>This license requires an equal number of session capacity licenses.</p> <p>Entitled Products and Restricted Use Licenses</p>

Product	Subproduct	Licensing Description
		<p>N/A</p>
	<p>Oracle Enterprise Session Border Controller, Advanced Security Suite – Network-Wide Concurrent Session Subscriptions</p>	<p>Product Editions and Permitted Features Combines the Data Integrity and Administrative Security features. Features. An ESBC configured with this license complies with the US government Defense Information Systems Agency JITC specification UCR2013.</p> <p>Admin Security – Enables increased administrative security capabilities of the system for password strength, password usage policies, user roles, and management of administrative users.</p> <p>FIPS – Strengthens the privacy provided by the ESBC’s cryptographic module to the levels required by the FIPS 140-2 Standards.</p> <p>Pre-requisite Products</p> <ul style="list-style-type: none"> • Oracle Enterprise Session Border Controller session capacity <p>This license requires an equal number of session capacity licenses.</p> <p>Entitled Products and Restricted Use Licenses N/A</p>
	<p>Oracle Enterprise Session Border Controller, Data Integrity – Integrated Software Option – per 5 Concurrent Sessions Metric</p>	<p>Product Editions and Permitted Features Strengthens the privacy provided by the ESBC’s cryptographic module to the levels required by the FIPS 140-2 Standards.</p> <p>Pre-requisite Products</p> <ul style="list-style-type: none"> • Oracle Enterprise Session Border Controller – Integrated Software Option session capacity <p>This license requires an equal number of ISO session capacity licenses.</p> <p>Entitled Products and Restricted Use Licenses N/A</p>
	<p>Oracle Enterprise Session Border Controller, Data Integrity – Network-Wide Concurrent Session Perpetual</p>	<p>Product Editions and Permitted Features Strengthens the privacy provided by the E-SBC’s cryptographic module to the levels required by the FIPS 140-2 Standards.</p> <p>Pre-requisite Products</p> <ul style="list-style-type: none"> • Oracle Enterprise Session Border Controller session capacity <p>This license requires an equal number of session capacity</p>

Product	Subproduct	Licensing Description
		<p>licenses.</p> <p>Entitled Products and Restricted Use Licenses N/A</p>
	<p>Oracle Enterprise Session Border Controller, Data Integrity – Network-Wide Concurrent Session Subscriptions</p>	<p>Product Editions and Permitted Features Strengthens the privacy provided by the E-SBC’s cryptographic module to the levels required by the FIPS 140-2 Standards.</p> <p>Pre-requisite Products</p> <ul style="list-style-type: none"> Oracle Enterprise Session Border Controller session capacity <p>This license requires an equal number of session capacity licenses.</p> <p>Entitled Products and Restricted Use Licenses N/A</p>
	<p>Oracle Enterprise Session Border Controller, IPSec Trunking – Network-Wide Concurrent Session Perpetual</p>	<p>Product Editions and Permitted Features Enables the use of the IPSec protocol for protecting signaling and media.</p> <p>Pre-requisite Products</p> <ul style="list-style-type: none"> Supported virtualized platform. Not applicable for Acme Packet 1100, 3900, 4600, or 6350 platforms. <p>AND</p> <ul style="list-style-type: none"> Oracle Enterprise Session Border Controller session capacity <p>This license requires an equal number of session capacity licenses.</p> <p>Entitled Products and Restricted Use Licenses This license is only applicable to VME deployments</p>
	<p>Oracle Enterprise Session Border Controller, IPSec Trunking – Network-Wide Concurrent Session Subscriptions</p>	<p>Product Editions and Permitted Features Enables the use of the IPSec protocol for protecting signaling and media.</p> <p>Pre-requisite Products</p> <ul style="list-style-type: none"> Supported virtualized platform. Not applicable for Acme Packet 1100, 3900, 4600, or 6350 platforms. <p>AND</p> <ul style="list-style-type: none"> Oracle Enterprise Session Border Controller session capacity <p>This license requires an equal number of session capacity licenses.</p>

Product	Subproduct	Licensing Description
		<p>Entitled Products and Restricted Use Licenses This license is only applicable to VME deployments</p>
	<p>Oracle Enterprise Session Border Controller, REST API for 3rd Party Use – Integrated Software Option – per 5 Concurrent Sessions Metric</p>	<p>Product Editions and Permitted Features Enables automated management of the SBC from 3rd party (i.e. non Oracle) applications and services.</p> <p>Pre-requisite Products</p> <ul style="list-style-type: none"> • Oracle Enterprise Session Border Controller – Integrated Software Option session capacity <p>This license requires an equal number of ISO session capacity licenses.</p> <p>Entitled Products and Restricted Use Licenses N/A</p>
	<p>Oracle Enterprise Session Border Controller, REST API for 3rd Party Use – Network-Wide Concurrent Session Perpetual</p>	<p>Product Editions and Permitted Features Enables automated management of the SBC from 3rd party (i.e. non Oracle) applications and services.</p> <p>Pre-requisite Products</p> <ul style="list-style-type: none"> • Oracle Enterprise Session Border Controller session capacity <p>This license requires an equal number of session capacity licenses.</p> <p>Entitled Products and Restricted Use Licenses N/A</p>
	<p>Oracle Enterprise Session Border Controller, REST API for 3rd Party Use – Network-Wide Concurrent Session Subscriptions</p>	<p>Product Editions and Permitted Features Enables automated management of the SBC from 3rd party (i.e. non Oracle) applications and services.</p> <p>Pre-requisite Products</p> <ul style="list-style-type: none"> • Oracle Enterprise Session Border Controller session capacity <p>This license requires an equal number of session capacity licenses.</p> <p>Entitled Products and Restricted Use Licenses N/A</p>
	<p>Oracle Enterprise Session Border Controller, Secure Real-time Transport Protocol (SRTP) – Network-Wide</p>	<p>Product Editions and Permitted Features Enables the use of SRTP (SDES and DTLS) for encryption of media</p> <p>Pre-requisite Products</p>

Product	Subproduct	Licensing Description
	Concurrent Session Perpetual	<ul style="list-style-type: none"> Supported virtualized platform. Not applicable for Acme Packet 1100, 3900, 4600, or 6350 platforms. AND <ul style="list-style-type: none"> Oracle Enterprise Session Border Controller session capacity This license requires an equal number of session capacity licenses. Entitled Products and Restricted Use Licenses This license is only applicable to VME deployments
	Oracle Enterprise Session Border Controller, Secure Real-time Transport Protocol (SRTP) – Network-Wide Concurrent Session Subscriptions	Product Editions and Permitted Features Enables the use of SRTP (SDES and DTLS) for encryption of media Pre-requisite Products <ul style="list-style-type: none"> Supported virtualized platform. Not applicable for Acme Packet 1100, 3900, 4600, or 6350 platforms. AND <ul style="list-style-type: none"> Oracle Enterprise Session Border Controller session capacity This license requires an equal number of session capacity licenses. Entitled Products and Restricted Use Licenses This license is only applicable to VME deployments
	Oracle Enterprise Session Border Controller, Transport Layer Security (TLS) – Network-Wide Concurrent Session Perpetual	Product Editions and Permitted Features Enables the use of TLS for encryption of SIP signaling Pre-requisite Products <ul style="list-style-type: none"> Supported virtualized platform. Not applicable for Acme Packet 1100, 3900, 4600, or 6350 platforms. AND <ul style="list-style-type: none"> Oracle Enterprise Session Border Controller session capacity This license requires an equal number of session capacity licenses. Entitled Products and Restricted Use Licenses This license is only applicable to VME deployments
	Oracle Enterprise Session Border Controller, Transport Layer Security (TLS) – Network-Wide	Product Editions and Permitted Features Enables the use of TLS for encryption of SIP signaling Pre-requisite Products <ul style="list-style-type: none"> Supported virtualized platform. Not applicable for

Product	Subproduct	Licensing Description
	Concurrent Session Subscriptions	<p>Acme Packet 1100, 3900, 4600, or 6350 platforms.</p> <p>AND</p> <ul style="list-style-type: none"> Oracle Enterprise Session Border Controller session capacity <p>This license requires an equal number of session capacity licenses.</p> <p>Entitled Products and Restricted Use Licenses</p> <p>This license is only applicable to VME deployments</p>
Session Based Licenses (orderable independent of session capacity licenses)		
	Oracle Enterprise Session Border Controller, Advanced MSRP Media Handling-Integrated Software Option - per 5 Concurrent Sessions Metric	<p>Product Editions and Permitted Features</p> <p>Enables the use of MSRP B2BUA (Message Session Relay Protocol Back to Back User Agent) functionality.</p> <p>Pre-requisite Products</p> <ul style="list-style-type: none"> Oracle Enterprise Session Border Controller - Integrated Software Option session capacity <p>Entitled Products and Restricted Use Licenses</p> <p>N/A</p>
	Oracle Enterprise Session Border Controller, Advanced MSRP Media Handling - Network-Wide Concurrent Session Perpetual	<p>Product Editions and Permitted Features</p> <p>Enables the use of MSRP B2BUA (Message Session Relay Protocol Back to Back User Agent) functionality.</p> <p>Pre-requisite Products</p> <ul style="list-style-type: none"> Oracle Enterprise Session Border Controller session capacity <p>Entitled Products and Restricted Use Licenses</p> <p>N/A</p>
	Oracle Enterprise Session Border Controller, Advanced MSRP Media Handling - Network-Wide Concurrent Session Subscriptions	<p>Product Editions and Permitted Features</p> <p>Enables the use of MSRP B2BUA (Message Session Relay Protocol Back to Back User Agent) functionality.</p> <p>Pre-requisite Products</p> <ul style="list-style-type: none"> Oracle Enterprise Session Border Controller session capacity <p>Entitled Products and Restricted Use Licenses</p> <p>N/A</p>
Codec Licenses		

Product	Subproduct	Licensing Description
	Transcoding coder/decoder for Oracle Enterprise Session Border Controller, AMR-NB - Integrated Software Option - per 5 Concurrent Sessions Metric	<p>Product Editions and Permitted Features</p> <p>AMR-NB royalty license is required in order to enable support for transcoding to and from AMR-NB codec.</p> <p>Pre-requisite Products</p> <ul style="list-style-type: none"> Acme Packet 1100, 3900, 4600, or 6350 with transcoding module(s). Not available on ESBC VME. <p>AND</p> <ul style="list-style-type: none"> Oracle Enterprise Session Border Controller session capacity <p>Requires an equal or greater number of session capacity licenses</p> <p>Entitled Products and Restricted Use Licenses</p> <p>N/A</p>
	Transcoding coder/decoder for Oracle Enterprise Session Border Controller, AMR-NB - Network-Wide Concurrent Session Perpetual	<p>Product Editions and Permitted Features</p> <p>AMR-NB royalty license is required in order to enable support for transcoding to and from AMR-NB codec.</p> <p>Pre-requisite Products</p> <ul style="list-style-type: none"> Oracle Enterprise Session Border Controller session capacity <p>Requires an equal or greater number of session capacity licenses</p> <p>Entitled Products and Restricted Use Licenses</p> <p>N/A</p>
	Transcoding coder/decoder for Oracle Enterprise Session Border Controller, AMR-NB - Network-Wide Concurrent Session Subscriptions	<p>Product Editions and Permitted Features</p> <p>AMR-NB royalty license is required in order to enable support for transcoding to and from AMR-NB codec.</p> <p>Pre-requisite Products</p> <ul style="list-style-type: none"> Oracle Enterprise Session Border Controller session capacity <p>Requires an equal or greater number of session capacity licenses</p> <p>Entitled Products and Restricted Use Licenses</p> <p>N/A</p>
	Transcoding coder/decoder for Oracle Enterprise Session Border	<p>Product Editions and Permitted Features</p> <p>AMR-WB royalty license is required in order to enable support for transcoding to and from AMR-WB codec.</p>

Product	Subproduct	Licensing Description
	Controller, AMR-WB (G.722.2) - Integrated Software Option – per 5 Concurrent Sessions Metric	<p>Pre-requisite Products</p> <ul style="list-style-type: none"> Acme Packet 1100, 3900, 4600, or 6350 with transcoding module(s). Not available on ESBC VME. <p>AND</p> <ul style="list-style-type: none"> Oracle Enterprise Session Border Controller session capacity <p>Requires an equal or greater number of session capacity licenses</p> <p>Entitled Products and Restricted Use Licenses N/A</p>
	Transcoding coder/decoder for Oracle Enterprise Session Border Controller, AMR-WB (G.722.2) - Network-Wide Concurrent Session Perpetual	<p>Product Editions and Permitted Features</p> <p>AMR-WB royalty license is required in order to enable support for transcoding to and from AMR-WB codec.</p> <p>Pre-requisite Products</p> <ul style="list-style-type: none"> Oracle Enterprise Session Border Controller session capacity <p>Requires an equal or greater number of session capacity licenses</p> <p>Entitled Products and Restricted Use Licenses N/A</p>
	Transcoding coder/decoder for Oracle Enterprise Session Border Controller, AMR-WB (G.722.2) - Network-Wide Concurrent Session Subscriptions	<p>Product Editions and Permitted Features</p> <p>AMR-WB royalty license is required in order to enable support for transcoding to and from AMR-WB codec.</p> <p>Pre-requisite Products</p> <ul style="list-style-type: none"> Oracle Enterprise Session Border Controller session capacity <p>Requires an equal or greater number of session capacity licenses</p> <p>Entitled Products and Restricted Use Licenses N/A</p>
	Transcoding coder/decoder for Oracle Enterprise Session Border Controller, EVS - Integrated Software Option – per 5	<p>Product Editions and Permitted Features</p> <p>EVS royalty license is required in order to enable support for transcoding to and from EVS codec.</p> <p>Pre-requisite Products</p> <ul style="list-style-type: none"> Acme Packet 1100, 3900, 4600, or 6350 with transcoding module(s). Not available on ESBC VME.

Product	Subproduct	Licensing Description
	Concurrent Sessions Metric	<p>AND</p> <ul style="list-style-type: none"> Oracle Enterprise Session Border Controller session capacity <p>Requires an equal or greater number of session capacity licenses</p> <p>Entitled Products and Restricted Use Licenses N/A</p>
	Transcoding coder/decoder for Oracle Enterprise Session Border Controller, EVS - Network-Wide Concurrent Session Perpetual	<p>Product Editions and Permitted Features</p> <p>EVS royalty license is required in order to enable support for transcoding to and from EVS codec.</p> <p>Pre-requisite Products</p> <ul style="list-style-type: none"> Oracle Enterprise Session Border Controller session capacity <p>Requires an equal or greater number of session capacity licenses</p> <p>Entitled Products and Restricted Use Licenses N/A</p>
	Transcoding coder/decoder for Oracle Enterprise Session Border Controller, EVS - Network-Wide Concurrent Session Subscriptions	<p>Product Editions and Permitted Features</p> <p>EVS royalty license is required in order to enable support for transcoding to and from EVS codec.</p> <p>Pre-requisite Products</p> <ul style="list-style-type: none"> Oracle Enterprise Session Border Controller session capacity <p>Requires an equal or greater number of session capacity licenses</p> <p>Entitled Products and Restricted Use Licenses N/A</p>
	Transcoding coder/decoder for Oracle Enterprise Session Border Controller, Opus - Integrated Software Option - per 5 Concurrent Sessions Metric	<p>Product Editions and Permitted Features</p> <p>Opus royalty license is required in order to enable support for transcoding to and from Opus codec.</p> <p>Pre-requisite Products</p> <ul style="list-style-type: none"> Acme Packet 1100, 3900, 4600, or 6350 with transcoding module(s). Not available on ESBC VME. <p>AND</p> <ul style="list-style-type: none"> Oracle Enterprise Session Border Controller session capacity

Product	Subproduct	Licensing Description
		<p>Requires an equal or greater number of session capacity licenses</p> <p>Entitled Products and Restricted Use Licenses N/A</p>
	<p>Transcoding coder/decoder for Oracle Enterprise Session Border Controller, Opus - Network-Wide Concurrent Session Perpetual</p>	<p>Product Editions and Permitted Features</p> <p>Opus royalty license is required in order to enable support for transcoding to and from Opus codec.</p> <p>Pre-requisite Products</p> <ul style="list-style-type: none"> Oracle Enterprise Session Border Controller session capacity <p>Requires an equal or greater number of session capacity licenses</p> <p>Entitled Products and Restricted Use Licenses N/A</p>
	<p>Transcoding coder/decoder for Oracle Enterprise Session Border Controller, Opus - Network-Wide Concurrent Session Subscriptions</p>	<p>Product Editions and Permitted Features</p> <p>Opus royalty license is required in order to enable support for transcoding to and from Opus codec.</p> <p>Pre-requisite Products</p> <ul style="list-style-type: none"> Oracle Enterprise Session Border Controller session capacity <p>Requires an equal or greater number of session capacity licenses</p> <p>Entitled Products and Restricted Use Licenses N/A</p>
	<p>Transcoding coder/decoder for Oracle Enterprise Session Border Controller, SILK - Integrated Software Option – per 5 Concurrent Sessions Metric</p>	<p>Product Editions and Permitted Features</p> <p>SILK royalty license is required in order to enable support for transcoding to and from SILK codec.</p> <p>Pre-requisite Products</p> <ul style="list-style-type: none"> Acme Packet 1100, 3900, 4600, or 6350 with transcoding module(s). Not available on ESBC VME. <p>AND</p> <ul style="list-style-type: none"> Oracle Enterprise Session Border Controller session capacity <p>Requires an equal or greater number of session capacity licenses</p> <p>Entitled Products and Restricted Use Licenses</p>

Product	Subproduct	Licensing Description
		N/A
	Transcoding coder/decoder for Oracle Enterprise Session Border Controller, SILK - Network-Wide Concurrent Session Perpetual	<p>Product Editions and Permitted Features</p> <p>SILK royalty license is required in order to enable support for transcoding to and from SILK codec.</p> <p>Pre-requisite Products</p> <ul style="list-style-type: none"> • Oracle Enterprise Session Border Controller session capacity <p>Requires an equal or greater number of session capacity licenses</p> <p>Entitled Products and Restricted Use Licenses</p> <p>N/A</p>
	Transcoding coder/decoder for Oracle Enterprise Session Border Controller, SILK - Network-Wide Concurrent Session Subscriptions	<p>Product Editions and Permitted Features</p> <p>SILK royalty license is required in order to enable support for transcoding to and from SILK codec.</p> <p>Pre-requisite Products</p> <ul style="list-style-type: none"> • Oracle Enterprise Session Border Controller session capacity <p>Requires an equal or greater number of session capacity licenses</p> <p>Entitled Products and Restricted Use Licenses</p> <p>N/A</p>

Third-Party Commercial and Open Source Software

Commercial Software

Commercial software used in Oracle Enterprise Session Border Controller – S-CZ9.3.0 is identified in the following table with the following license notes, restrictions, and disclaimers.

Vendor	Product(s) and Version(s)	Licensing Description/Disclaimer
Cavium	u-boot – 1.1.1	GPL 2.0 - See APPENDIX B
Icon Laboratories	Envoy SNMP – 3.6	Used under license from Icon Laboratories, All Rights Reserved.
Mocana	NanoSec Standard and Advanced – 5.1.1	Used under license from Mocana, All Rights Reserved
	NanoSSH Advanced – 5.1.1	Used under license from Mocana, All Rights Reserved
	NanoSSH Client and Server – 5.1.1	Used under license from Mocana, All Rights Reserved
	Embedded IKE – 5.1.1	Used under license from Mocana. All Rights Reserved.
	Embedded SSH Client and Server – 5.1.1	Used under license from Mocana. All Rights Reserved.
	Embedded SSL Server – 5.1.1	Used under license from Mocana. All Rights Reserved.
	bitstring.h (4 th party of Mocana)	<p>Copyright (c) 1989, 1993 The Regents of the University of California. All rights reserved.</p> <p>This code is derived from software contributed to Berkeley by Paul Vixie.</p> <p>Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:</p> <ol style="list-style-type: none"> 1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

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Radvision	H.323 Toolkit	Used under license from Radvision, All Rights Reserved
	ARTP/RTCP	Used under license from Radvision, All Rights Reserved
	ASN.1 Compiler Add-On for H.323 for Windows	Used under license from Radvision, All Rights Reserved
	ARES Library (4 th party of Radvision)	<p>Copyright 1998 by the Massachusetts Institute of Technology.</p> <p>Permission to use, copy, modify, and distribute this software and its documentation for any purpose and without fee is hereby granted, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation, and that the name of M.I.T. not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission. M.I.T. makes no representations about the suitability of this software for any purpose. It is provided "as is" without express or implied warranty.</p>
Skype Limited	SILK 1.0.9	Copyright (c) 2006-2010, Skype Limited. All rights reserved.

Vendor	Product(s) and Version(s)	Licensing Description/Disclaimer
		<p>Redistribution and use in source and binary forms, with or without modification, (subject to the limitations in the disclaimer below) are permitted provided that the following conditions are met:</p> <ul style="list-style-type: none"> - Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer. - Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution. - Neither the name of Skype Limited, nor the names of specific contributors, may be used to endorse or promote products derived from this software without specific prior written permission. <p>NO EXPRESS OR IMPLIED LICENSES TO ANY PARTY'S PATENT RIGHTS ARE GRANTED BY THIS LICENSE. THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.</p>

Open Source Disclosure

Oracle takes no responsibility for its use or distribution of any open source or shareware software or documentation and disclaims all liability or damages resulting from use of said software or documentation. Open source software used in Oracle Enterprise Session Border Controller is identified in the following table with the following license notes, restrictions, and disclaimers.

Election to use GPL v2 / LGPL v2.1 instead of GPL v3 / LGPL v3 where applicable

Oracle elects to use only the GNU Lesser General Public License version 2.1 (LGPL)/GNU General Public License version 2 (GPL) for any software where a choice of LGPL/GPL license versions are made available with the language indicating that LGPLv2.1/GPLv2 or any later version may be used, or where a choice of which version of the LGPL/GPL applies is unspecified. Where a choice is available between the GPL or the LGPL and any other license, and no specific election has been made with respect to that particular component, Oracle chooses the other license.

The GNU GPL v2 license applies to the Enterprise Linux compilation and any portions of Enterprise Linux it does not conflict with. Whenever this policy does conflict with the copyright of any individual portion of Enterprise Linux, it does not apply.

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Version 3, 29 June 2007

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/*

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*

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* Tabs at 4

*/

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```

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```
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`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989  
Ty Coon, President of Vice
```

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This file is intended to contain a few notes about writing C code within GCC so that it compiles without error on the full range of compilers GCC needs to be able to compile on.

The problem is that many ISO-standard constructs are not accepted by either old or buggy compilers, and we keep getting bitten by them. This knowledge until now has been sparsely spread around, so I thought I'd collect it in one useful place. Please add and correct any problems as you come across them.

I'm going to start from a base of the ISO C90 standard, since that is probably what most people code to naturally. Obviously using constructs introduced after that is not a good idea.

For the complete coding style conventions used in GCC, please read <http://gcc.gnu.org/codingconventions.html>

String literals

Some compilers like MSVC++ have fairly low limits on the maximum length of a string literal; 509 is the lowest we've come across. You may need to break up a long printf statement into many smaller ones.

Empty macro arguments

ISO C (6.8.3 in the 1990 standard) specifies the following:

If (before argument substitution) any argument consists of no preprocessing tokens, the behavior is undefined.

This was relaxed by ISO C99, but some older compilers emit an error, so code like

```
#define foo(x, y) x y
```

foo (bar,)

needs to be coded in some other way.

Avoid unnecessary test before free

Since SunOS 4 stopped being a reasonable portability target, (which happened around 2007) there has been no need to guard against "free (NULL)". Thus, any guard like the following constitutes a redundant test:

```
if (P)
    free (P);
```

It is better to avoid the test.[*]
Instead, simply free P, regardless of whether it is NULL.

[*] However, if your profiling exposes a test like this in a performance-critical loop, say where P is nearly always NULL, and the cost of calling free on a NULL pointer would be prohibitively high, consider using `__builtin_expect`, e.g., like this:

```
if (__builtin_expect (ptr != NULL, 0))
    free (ptr);
```

Trigraphs

You weren't going to use them anyway, but some otherwise ISO C compliant compilers do not accept trigraphs.

Suffixes on Integer Constants

You should never use a 'l' suffix on integer constants ('L' is fine), since it can easily be confused with the number '1'.

Common Coding Pitfalls

=====

errno

errno might be declared as a macro.

Implicit int

In C, the 'int' keyword can often be omitted from type declarations. For instance, you can write

```
unsigned variable;
```

as shorthand for

```
unsigned int variable;
```

There are several places where this can cause trouble. First, suppose 'variable' is a long; then you might think

```
(unsigned) variable
```

would convert it to unsigned long. It does not. It converts to unsigned int. This mostly causes problems on 64-bit platforms, where long and int are not the same size.

Second, if you write a function definition with no return type at all:

```
operate (int a, int b)
{
  ...
}
```

that function is expected to return int, *not* void. GCC will warn about this.

Implicit function declarations always have return type int. So if you correct the above definition to

```
void
operate (int a, int b)
...
```

but operate() is called above its definition, you will get an error about a "type mismatch with previous implicit declaration". The cure is to prototype all functions at the top of the file, or in an appropriate header.

Char vs unsigned char vs int

In C, unqualified 'char' may be either signed or unsigned; it is the implementation's choice. When you are processing 7-bit ASCII, it does not matter. But when your program must handle arbitrary binary data, or fully 8-bit character sets, you have a problem. The most obvious issue is if you have a look-up table indexed by characters.

For instance, the character '\341' in ISO Latin 1 is SMALL LETTER A WITH ACUTE ACCENT. In the proper locale, `isalpha('\341')` will be true. But if you read '\341' from a file and store it in a plain char, `isalpha(c)` may look up character 225, or it may look up character -31. And the ctype table has no entry at offset -31, so your program will crash. (If you're lucky.)

It is wise to use unsigned char everywhere you possibly can. This avoids all these problems. Unfortunately, the routines in `<string.h>` take plain char arguments, so you have to remember to cast them back and forth - or avoid the use of `strxxx()` functions, which is probably a good idea anyway.

Another common mistake is to use either char or unsigned char to receive the result of `getc()` or related stdio functions. They may return EOF, which is outside the range of values representable by char. If you use char, some legal character value may be confused with EOF, such as '\377' (SMALL LETTER Y WITH UMLAUT, in Latin-1). The correct choice is int.

A more subtle version of the same mistake might look like this:

```
unsigned char pushback[NPUSHBACK];
int pbidx;
#define ungetc(c) (assert(pbidx < NPUSHBACK), pushback[pbidx++] = (c))
#define get(c) (pbidx ? pushback[--pbidx] : getchar())
...
ungetc(EOF);
```

which will mysteriously turn a pushed-back EOF into a SMALL LETTER Y WITH UMLAUT.

Other common pitfalls

- o Expecting 'plain' char to be either sign or unsigned extending.
- o Shifting an item by a negative amount or by greater than or equal to

the number of bits in a type (expecting shifts by 32 to be sensible has caused quite a number of bugs at least in the early days).

- o Expecting ints shifted right to be sign extended.
- o Modifying the same value twice within one sequence point.
- o Host vs. target floating point representation, including emitting NaNs and Infinities in a form that the assembler handles.
- o qsort being an unstable sort function (unstable in the sense that multiple items that sort the same may be sorted in different orders by different qsort functions).
- o Passing incorrect types to fprintf and friends.
- o Adding a function declaration for a module declared in another file to a .c file instead of to a .h file.

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expression-eval

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jsep -

<https://github.com/soney/jsep>

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Normalize.scss

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RequireJS i18n

<http://github.com/requirejs/i18n> for details

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select2.js

<https://github.com/select2/select2>

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jQuery UI -

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JS Signals <<http://millermedeiros.github.com/js-signals/>>

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RequireJS text

<http://github.com/requirejs/text>

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RequireJS

<http://github.com/jrburke/requirejs>

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Python License

A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands

as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see <https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

Footnotes:

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Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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