

## **Adabas Cluster Services**

### **Entire Net-Work Storage Estimates**

Version 7.4.2

September 2009

This document applies to Adabas Cluster Services Version 7.4.2 and to all subsequent releases.

Specifications contained herein are subject to change and these changes will be reported in subsequent release notes or new editions.

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# 1 Entire Net-Work Storage Estimates

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Given the complexity of today's data processing environments, it is almost impossible to provide methods to predict the exact storage requirements of a software product.

The following tables provides rough estimates about the fixed storage requirements of Entire Net-Work and its various components, ignoring system-related storage requirements, which typically vary from installation to installation.

The Entire Net-Work Storage Estimates documentation is organized in the following topics:

•	<b>Storage Estimates Obtained from System</b>	contains the amounts of storage obtained from the operating system based on parameter specification or appropriate defaults. It does <i>not</i> include storage areas that are directly related to the operating system, such as operating system control blocks, I/O-related buffers, and control blocks (except where they are part of Entire Net-Work program modules or data areas).
•	<b>Storage Obtained from Entire Net-Work Buffer Pools</b>	contains the amounts of storage obtained from the Entire Net-Work buffer pools by the control module and the XCF line driver.



## 2 Storage Areas Obtained from System

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		OS/390 or z/OS
Request queue: (NC parameter+1)*192		AS(X)
Attached buffers: (NAB parameter*4112)		AS(X)
Entire Net-Work buffer pools: (specified size + ca. 1% for administration, rounded up to nearest 2KB or 4KB)		
	Asynchronous buffers	AS(X)
	Long-term buffers	AS
	Short-term buffers	AS(X)
	Page-fixed buffers	AS
Entire Net-Work trace table: (NTRACE parameter * 32 bytes)		AS(X)
Entire Net-Work control blocks:		AS
	Node	48
	Target	32
	Path	32
	XCF Driver	2048
	XCF Link	640
ADAIOR data areas:		AS
	(for trace table, ECB list, etc.)	ca. 2KB

**Explanations**

<b>Abbreviation</b>	<b>Meaning</b>
AS	from address space (private, below 16MB if XA or XS)
AS(X)	from address space (private, above 16MB if XA or XS)



### 3 Storage Obtained from Entire Net-Work Buffer Pools

Buffer pools	Asynch	Long-term	Short-term	Page-fixed
<b>Segment size:</b>	<b>64</b>	<b>64</b>	<b>512</b>	<b>2KB or 4KB</b>
Usage by:				
Control module		UB	MSG RPLY	
Queue managers			BLK	BLK

#### Explanations

BLK	Storage for outgoing transmission blocks (after compression and blocking), from short-term pool or page-fixed pool, depending on line driver requirements. Storage requirements for one transmission block include, in addition to the messages contained, 48 bytes for a transmission block header.
MSG	All messages sent or received; output messages kept until acknowledged by the access method, input messages kept until processed.
	The size of a message can be computed in the following way: 56 bytes for a message header + maxpath * 2 bytes for a node stack + 128 bytes for UB, ACB, etc. + size of FB, RB, SB, VB, IB to send or receive
RPLY	A reply buffer for each user request for a target on this node if the information returned by the target will not fit into the original message buffer (that is, if a large record buffer or ISN buffer is to be returned to the user).
UB	(only if 31-bit mode:) 64 bytes per user request for a target on this node, for the duration of the Adabas call.

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